

**Abbreviations:** CMC (carboxymethylcellulose); CNT (carbon nanotube); CNT-Fe<sub>3</sub>O<sub>4</sub> NHs (carbon nanotube—magnetite nanohybrids); TEM (transmission electron microscope); TGA (thermogravimetric analysis); XRD (X-ray diffraction).

**Figure 1 shows the physicochemical characterizations of the carbon nanotube (CNT) and carbon nanotube—magnetite nanohybrids (CNT-Fe<sub>3</sub>O<sub>4</sub> NHs) including X-ray diffraction (XRD; Figure 1a), transmission electron microscope (TEM; Figure 1b), Raman spectrum (Figure 1c), and thermogravimetric analysis (TGA; Figure 1d), as shown below in details.**

**Figure 1a.** X-ray diffraction (XRD) data

The XRD measurements were conducted on the Rigaku Ultima IV X-ray diffractometer (Tokyo, Japan) using a graphite monochromator with a Cu K<sub>α</sub> source ( $\lambda = 1.5406 \text{ \AA}$ ) from  $2\theta = 0^\circ$  to  $90^\circ$  at a step size of  $0.02^\circ$  and a scanning rate of  $2^\circ \text{ min}^{-1}$ . The intensity unit of a.u. denotes arbitrary unit.

CNT		CNT-Fe <sub>3</sub> O <sub>4</sub> NHs	
2 $\theta$ ( $^\circ$ )	Intensity (a.u.)	2 $\theta$ ( $^\circ$ )	Intensity (a.u.)
5	154	5	36
5.02	162	5.02	55
5.04	144	5.04	37
5.06	160	5.06	37
5.08	157	5.08	45
5.1	156	5.1	29
5.12	127	5.12	41
5.14	134	5.14	33
5.16	153	5.16	54
5.18	148	5.18	46
5.2	131	5.2	33
5.22	148	5.22	34
5.24	112	5.24	51
5.26	146	5.26	42
5.28	118	5.28	40
5.3	116	5.3	42
5.32	124	5.32	31
5.34	114	5.34	42
5.36	135	5.36	44
5.38	122	5.38	38
5.4	132	5.4	37
5.42	119	5.42	44
5.44	101	5.44	40
5.46	118	5.46	34
5.48	115	5.48	32
5.5	119	5.5	43
5.52	119	5.52	43
5.54	111	5.54	26
5.56	101	5.56	46
5.58	122	5.58	45
5.6	113	5.6	33
5.62	114	5.62	42
5.64	107	5.64	36

5.66	122	5.66	28
5.68	118	5.68	30
5.7	109	5.7	29
5.72	98	5.72	26
5.74	109	5.74	41
5.76	97	5.76	40
5.78	105	5.78	39
5.8	96	5.8	30
5.82	109	5.82	40
5.84	113	5.84	36
5.86	96	5.86	24
5.88	98	5.88	37
5.9	85	5.9	42
5.92	91	5.92	29
5.94	115	5.94	43
5.96	105	5.96	31
5.98	120	5.98	41
6	123	6	34
6.02	121	6.02	33
6.04	101	6.04	36
6.06	94	6.06	32
6.08	101	6.08	32
6.1	98	6.1	28
6.12	106	6.12	25
6.14	97	6.14	31
6.16	91	6.16	32
6.18	87	6.18	36
6.2	97	6.2	30
6.22	112	6.22	29
6.24	76	6.24	36
6.26	89	6.26	23
6.28	76	6.28	27
6.3	94	6.3	29
6.32	105	6.32	34
6.34	75	6.34	23
6.36	101	6.36	29
6.38	95	6.38	23
6.4	86	6.4	22
6.42	89	6.42	37
6.44	84	6.44	33
6.46	82	6.46	27
6.48	89	6.48	30
6.5	78	6.5	43
6.52	78	6.52	21
6.54	85	6.54	36
6.56	89	6.56	25
6.58	75	6.58	29
6.6	94	6.6	26
6.62	84	6.62	30
6.64	70	6.64	20
6.66	70	6.66	29
6.68	86	6.68	24
6.7	94	6.7	24
6.72	80	6.72	35
6.74	76	6.74	24
6.76	83	6.76	33

6.78	81	6.78	26
6.8	95	6.8	24
6.82	85	6.82	32
6.84	70	6.84	24
6.86	70	6.86	26
6.88	81	6.88	27
6.9	76	6.9	25
6.92	85	6.92	24
6.94	84	6.94	31
6.96	73	6.96	26
6.98	70	6.98	25
7	74	7	19
7.02	89	7.02	27
7.04	70	7.04	25
7.06	75	7.06	19
7.08	83	7.08	19
7.1	75	7.1	23
7.12	57	7.12	28
7.14	80	7.14	21
7.16	51	7.16	27
7.18	68	7.18	33
7.2	76	7.2	29
7.22	72	7.22	23
7.24	64	7.24	29
7.26	73	7.26	26
7.28	61	7.28	20
7.3	72	7.3	16
7.32	55	7.32	17
7.34	62	7.34	38
7.36	64	7.36	22
7.38	73	7.38	23
7.4	59	7.4	25
7.42	60	7.42	15
7.44	65	7.44	26
7.46	71	7.46	23
7.48	66	7.48	14
7.5	54	7.5	21
7.52	63	7.52	18
7.54	61	7.54	16
7.56	55	7.56	22
7.58	76	7.58	19
7.6	51	7.6	19
7.62	66	7.62	30
7.64	72	7.64	25
7.66	75	7.66	18
7.68	75	7.68	26
7.7	61	7.7	22
7.72	65	7.72	33
7.74	62	7.74	29
7.76	56	7.76	15
7.78	56	7.78	20
7.8	65	7.8	24
7.82	54	7.82	24
7.84	71	7.84	29
7.86	54	7.86	22
7.88	54	7.88	26

7.9	55	7.9	17
7.92	55	7.92	20
7.94	53	7.94	14
7.96	60	7.96	20
7.98	57	7.98	26
8	55	8	24
8.02	58	8.02	25
8.04	51	8.04	20
8.06	48	8.06	28
8.08	55	8.08	12
8.1	56	8.1	22
8.12	56	8.12	19
8.14	36	8.14	18
8.16	53	8.16	21
8.18	46	8.18	14
8.2	59	8.2	18
8.22	59	8.22	16
8.24	54	8.24	22
8.26	56	8.26	24
8.28	48	8.28	20
8.3	66	8.3	22
8.32	52	8.32	18
8.34	52	8.34	17
8.36	52	8.36	21
8.38	59	8.38	22
8.4	57	8.4	20
8.42	52	8.42	19
8.44	53	8.44	16
8.46	52	8.46	15
8.48	56	8.48	27
8.5	51	8.5	13
8.52	48	8.52	24
8.54	42	8.54	18
8.56	51	8.56	18
8.58	43	8.58	27
8.6	57	8.6	21
8.62	62	8.62	15
8.64	43	8.64	19
8.66	58	8.66	16
8.68	49	8.68	26
8.7	53	8.7	22
8.72	46	8.72	16
8.74	53	8.74	15
8.76	45	8.76	19
8.78	49	8.78	24
8.8	38	8.8	16
8.82	44	8.82	17
8.84	45	8.84	16
8.86	45	8.86	25
8.88	46	8.88	15
8.9	45	8.9	11
8.92	50	8.92	14
8.94	40	8.94	18
8.96	50	8.96	20
8.98	45	8.98	18
9	46	9	21

9.02	56	9.02	9
9.04	58	9.04	21
9.06	54	9.06	15
9.08	52	9.08	14
9.1	48	9.1	15
9.12	48	9.12	21
9.14	45	9.14	21
9.16	37	9.16	15
9.18	47	9.18	19
9.2	57	9.2	24
9.22	57	9.22	16
9.24	47	9.24	24
9.26	32	9.26	25
9.28	48	9.28	15
9.3	48	9.3	13
9.32	44	9.32	13
9.34	56	9.34	16
9.36	43	9.36	19
9.38	30	9.38	13
9.4	50	9.4	12
9.42	43	9.42	9
9.44	54	9.44	13
9.46	48	9.46	19
9.48	38	9.48	15
9.5	43	9.5	22
9.52	38	9.52	16
9.54	36	9.54	18
9.56	35	9.56	21
9.58	44	9.58	15
9.6	46	9.6	24
9.62	45	9.62	13
9.64	44	9.64	18
9.66	40	9.66	11
9.68	33	9.68	18
9.7	43	9.7	13
9.72	36	9.72	20
9.74	46	9.74	15
9.76	39	9.76	9
9.78	38	9.78	21
9.8	49	9.8	13
9.82	47	9.82	14
9.84	49	9.84	9
9.86	38	9.86	17
9.88	51	9.88	18
9.9	47	9.9	20
9.92	49	9.92	21
9.94	44	9.94	14
9.96	38	9.96	19
9.98	35	9.98	14
10	38	10	15
10.02	37	10.02	16
10.04	32	10.04	13
10.06	51	10.06	15
10.08	43	10.08	16
10.1	31	10.1	17
10.12	45	10.12	16

10.14	38	10.14	21
10.16	42	10.16	19
10.18	37	10.18	13
10.2	46	10.2	21
10.22	42	10.22	17
10.24	50	10.24	11
10.26	41	10.26	12
10.28	37	10.28	18
10.3	28	10.3	18
10.32	37	10.32	11
10.34	40	10.34	22
10.36	29	10.36	12
10.38	30	10.38	15
10.4	41	10.4	11
10.42	44	10.42	20
10.44	37	10.44	21
10.46	50	10.46	13
10.48	45	10.48	16
10.5	31	10.5	18
10.52	46	10.52	16
10.54	39	10.54	21
10.56	38	10.56	14
10.58	31	10.58	11
10.6	35	10.6	15
10.62	37	10.62	17
10.64	22	10.64	19
10.66	24	10.66	10
10.68	41	10.68	18
10.7	31	10.7	17
10.72	47	10.72	21
10.74	52	10.74	20
10.76	30	10.76	18
10.78	36	10.78	15
10.8	43	10.8	18
10.82	40	10.82	25
10.84	32	10.84	19
10.86	46	10.86	15
10.88	43	10.88	18
10.9	37	10.9	17
10.92	35	10.92	17
10.94	36	10.94	11
10.96	40	10.96	9
10.98	33	10.98	5
11	35	11	16
11.02	41	11.02	13
11.04	34	11.04	21
11.06	36	11.06	16
11.08	31	11.08	18
11.1	34	11.1	19
11.12	27	11.12	10
11.14	37	11.14	11
11.16	32	11.16	15
11.18	44	11.18	23
11.2	29	11.2	18
11.22	40	11.22	17
11.24	38	11.24	14

11.26	34	11.26	17
11.28	36	11.28	17
11.3	32	11.3	18
11.32	45	11.32	8
11.34	33	11.34	13
11.36	35	11.36	17
11.38	32	11.38	16
11.4	41	11.4	11
11.42	40	11.42	13
11.44	37	11.44	12
11.46	40	11.46	14
11.48	41	11.48	15
11.5	39	11.5	17
11.52	38	11.52	22
11.54	32	11.54	15
11.56	39	11.56	13
11.58	34	11.58	15
11.6	32	11.6	7
11.62	36	11.62	22
11.64	40	11.64	22
11.66	29	11.66	26
11.68	35	11.68	18
11.7	34	11.7	24
11.72	37	11.72	12
11.74	30	11.74	16
11.76	23	11.76	13
11.78	34	11.78	10
11.8	32	11.8	18
11.82	45	11.82	16
11.84	35	11.84	12
11.86	29	11.86	17
11.88	35	11.88	16
11.9	38	11.9	24
11.92	25	11.92	9
11.94	28	11.94	11
11.96	31	11.96	25
11.98	27	11.98	22
12	44	12	20
12.02	43	12.02	14
12.04	33	12.04	12
12.06	33	12.06	15
12.08	35	12.08	15
12.1	35	12.1	19
12.12	32	12.12	21
12.14	44	12.14	12
12.16	37	12.16	8
12.18	26	12.18	15
12.2	32	12.2	7
12.22	33	12.22	11
12.24	38	12.24	12
12.26	33	12.26	16
12.28	36	12.28	13
12.3	36	12.3	15
12.32	36	12.32	14
12.34	32	12.34	20
12.36	32	12.36	21

12.38	26	12.38	19
12.4	37	12.4	13
12.42	29	12.42	16
12.44	34	12.44	19
12.46	29	12.46	20
12.48	39	12.48	14
12.5	32	12.5	8
12.52	21	12.52	20
12.54	39	12.54	14
12.56	35	12.56	14
12.58	32	12.58	14
12.6	32	12.6	21
12.62	23	12.62	18
12.64	26	12.64	16
12.66	26	12.66	18
12.68	35	12.68	23
12.7	25	12.7	16
12.72	43	12.72	20
12.74	36	12.74	10
12.76	28	12.76	16
12.78	29	12.78	10
12.8	32	12.8	17
12.82	35	12.82	15
12.84	30	12.84	12
12.86	32	12.86	11
12.88	27	12.88	11
12.9	34	12.9	13
12.92	43	12.92	16
12.94	41	12.94	13
12.96	39	12.96	12
12.98	24	12.98	24
13	33	13	18
13.02	27	13.02	11
13.04	33	13.04	18
13.06	39	13.06	15
13.08	33	13.08	9
13.1	32	13.1	14
13.12	37	13.12	23
13.14	29	13.14	14
13.16	38	13.16	16
13.18	33	13.18	20
13.2	43	13.2	17
13.22	34	13.22	18
13.24	37	13.24	16
13.26	25	13.26	22
13.28	41	13.28	7
13.3	27	13.3	12
13.32	37	13.32	17
13.34	43	13.34	19
13.36	36	13.36	16
13.38	37	13.38	19
13.4	37	13.4	13
13.42	39	13.42	13
13.44	27	13.44	13
13.46	27	13.46	22
13.48	43	13.48	15



13.5	37	13.5	13
13.52	32	13.52	20
13.54	32	13.54	11
13.56	24	13.56	18
13.58	46	13.58	13
13.6	27	13.6	21
13.62	34	13.62	19
13.64	51	13.64	18
13.66	27	13.66	8
13.68	26	13.68	17
13.7	28	13.7	14
13.72	29	13.72	11
13.74	36	13.74	20
13.76	30	13.76	21
13.78	29	13.78	14
13.8	45	13.8	21
13.82	38	13.82	10
13.84	28	13.84	7
13.86	25	13.86	19
13.88	31	13.88	21
13.9	31	13.9	18
13.92	35	13.92	16
13.94	39	13.94	21
13.96	26	13.96	21
13.98	31	13.98	17
14	29	14	23
14.02	23	14.02	29
14.04	32	14.04	20
14.06	31	14.06	15
14.08	38	14.08	19
14.1	26	14.1	20
14.12	37	14.12	17
14.14	36	14.14	23
14.16	24	14.16	11
14.18	33	14.18	16
14.2	26	14.2	26
14.22	41	14.22	24
14.24	31	14.24	17
14.26	31	14.26	17
14.28	18	14.28	17
14.3	38	14.3	23
14.32	28	14.32	23
14.34	29	14.34	17
14.36	37	14.36	16
14.38	23	14.38	11
14.4	27	14.4	15
14.42	28	14.42	16
14.44	40	14.44	14
14.46	27	14.46	9
14.48	31	14.48	13
14.5	25	14.5	23
14.52	24	14.52	28
14.54	29	14.54	17
14.56	28	14.56	14
14.58	36	14.58	12
14.6	31	14.6	13

14.62	26	14.62	14
14.64	31	14.64	12
14.66	25	14.66	15
14.68	29	14.68	14
14.7	28	14.7	16
14.72	41	14.72	15
14.74	26	14.74	15
14.76	27	14.76	10
14.78	35	14.78	14
14.8	29	14.8	13
14.82	35	14.82	18
14.84	43	14.84	14
14.86	16	14.86	17
14.88	30	14.88	17
14.9	35	14.9	18
14.92	29	14.92	18
14.94	31	14.94	12
14.96	25	14.96	14
14.98	27	14.98	15
15	31	15	14
15.02	38	15.02	12
15.04	21	15.04	11
15.06	47	15.06	11
15.08	25	15.08	14
15.1	37	15.1	13
15.12	26	15.12	12
15.14	34	15.14	15
15.16	42	15.16	16
15.18	25	15.18	12
15.2	27	15.2	9
15.22	41	15.22	9
15.24	24	15.24	16
15.26	27	15.26	14
15.28	27	15.28	13
15.3	33	15.3	13
15.32	27	15.32	16
15.34	34	15.34	4
15.36	40	15.36	13
15.38	28	15.38	15
15.4	38	15.4	12
15.42	38	15.42	15
15.44	30	15.44	9
15.46	29	15.46	13
15.48	38	15.48	7
15.5	31	15.5	14
15.52	29	15.52	22
15.54	22	15.54	16
15.56	30	15.56	11
15.58	27	15.58	8
15.6	30	15.6	15
15.62	31	15.62	13
15.64	37	15.64	8
15.66	26	15.66	12
15.68	33	15.68	10
15.7	42	15.7	11
15.72	20	15.72	14

15.74	34	15.74	13
15.76	43	15.76	10
15.78	28	15.78	12
15.8	32	15.8	12
15.82	23	15.82	7
15.84	24	15.84	9
15.86	32	15.86	12
15.88	29	15.88	11
15.9	28	15.9	8
15.92	40	15.92	17
15.94	32	15.94	11
15.96	25	15.96	7
15.98	33	15.98	19
16	34	16	12
16.02	25	16.02	13
16.04	28	16.04	9
16.06	27	16.06	15
16.08	35	16.08	18
16.1	38	16.1	11
16.12	26	16.12	7
16.14	41	16.14	12
16.16	26	16.16	6
16.18	26	16.18	21
16.2	31	16.2	7
16.22	25	16.22	13
16.24	27	16.24	11
16.26	32	16.26	14
16.28	29	16.28	3
16.3	38	16.3	15
16.32	35	16.32	13
16.34	40	16.34	5
16.36	38	16.36	10
16.38	33	16.38	13
16.4	22	16.4	17
16.42	24	16.42	11
16.44	39	16.44	10
16.46	27	16.46	13
16.48	34	16.48	17
16.5	34	16.5	11
16.52	38	16.52	9
16.54	30	16.54	4
16.56	32	16.56	11
16.58	36	16.58	10
16.6	31	16.6	10
16.62	26	16.62	7
16.64	36	16.64	10
16.66	31	16.66	11
16.68	29	16.68	11
16.7	33	16.7	5
16.72	33	16.72	14
16.74	36	16.74	13
16.76	28	16.76	12
16.78	37	16.78	6
16.8	49	16.8	5
16.82	43	16.82	7
16.84	31	16.84	11

16.86	24	16.86	14
16.88	31	16.88	13
16.9	31	16.9	9
16.92	35	16.92	7
16.94	38	16.94	6
16.96	40	16.96	10
16.98	35	16.98	11
17	36	17	6
17.02	27	17.02	13
17.04	36	17.04	11
17.06	37	17.06	11
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17.12	28	17.12	4
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17.28	33	17.28	12
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17.4	17	17.4	9
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17.9	43	17.9	7
17.92	39	17.92	12
17.94	36	17.94	4
17.96	39	17.96	10

17.98	45	17.98	4
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18.04	36	18.04	9
18.06	27	18.06	4
18.08	43	18.08	3
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18.16	41	18.16	13
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19.96	42	19.96	1
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21.06	57	21.06	7
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21.3	51	21.3	9
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22.14	71	22.14	9
22.16	55	22.16	8
22.18	68	22.18	2
22.2	75	22.2	6
22.22	65	22.22	14
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22.44	80	22.44	6



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22.94	86	22.94	5
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22.98	103	22.98	7
23	95	23	11
23.02	95	23.02	7
23.04	93	23.04	17
23.06	90	23.06	11
23.08	92	23.08	11
23.1	91	23.1	12
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23.14	97	23.14	7
23.16	113	23.16	11
23.18	101	23.18	7
23.2	116	23.2	12
23.22	117	23.22	8
23.24	129	23.24	9
23.26	100	23.26	12
23.28	96	23.28	15
23.3	89	23.3	10
23.32	99	23.32	8
23.34	96	23.34	13
23.36	123	23.36	17
23.38	117	23.38	9
23.4	116	23.4	8
23.42	120	23.42	8
23.44	106	23.44	9
23.46	114	23.46	14
23.48	107	23.48	13
23.5	104	23.5	14
23.52	114	23.52	17
23.54	135	23.54	16
23.56	122	23.56	14

23.58	102	23.58	11
23.6	114	23.6	14
23.62	112	23.62	9
23.64	144	23.64	14
23.66	120	23.66	17
23.68	119	23.68	14
23.7	118	23.7	10
23.72	138	23.72	12
23.74	134	23.74	8
23.76	144	23.76	11
23.78	126	23.78	13
23.8	116	23.8	25
23.82	141	23.82	14
23.84	129	23.84	17
23.86	156	23.86	17
23.88	129	23.88	16
23.9	156	23.9	21
23.92	157	23.92	22
23.94	147	23.94	11
23.96	174	23.96	17
23.98	152	23.98	18
24	162	24	9
24.02	164	24.02	11
24.04	186	24.04	20
24.06	178	24.06	11
24.08	159	24.08	15
24.1	172	24.1	22
24.12	197	24.12	18
24.14	177	24.14	11
24.16	199	24.16	20
24.18	175	24.18	9
24.2	205	24.2	14
24.22	181	24.22	22
24.24	211	24.24	19
24.26	199	24.26	14
24.28	170	24.28	14
24.3	220	24.3	20
24.32	240	24.32	16
24.34	211	24.34	17
24.36	226	24.36	17
24.38	264	24.38	13
24.4	205	24.4	13
24.42	225	24.42	12
24.44	245	24.44	14
24.46	258	24.46	21
24.48	256	24.48	19
24.5	217	24.5	14
24.52	275	24.52	21
24.54	249	24.54	20
24.56	267	24.56	31
24.58	262	24.58	19
24.6	265	24.6	30
24.62	281	24.62	20
24.64	276	24.64	17
24.66	301	24.66	28
24.68	277	24.68	24

24.7	263	24.7	29
24.72	284	24.72	21
24.74	298	24.74	25
24.76	321	24.76	19
24.78	326	24.78	25
24.8	321	24.8	29
24.82	346	24.82	23
24.84	316	24.84	22
24.86	343	24.86	18
24.88	315	24.88	19
24.9	358	24.9	18
24.92	367	24.92	25
24.94	366	24.94	24
24.96	369	24.96	27
24.98	381	24.98	24
25	352	25	35
25.02	360	25.02	22
25.04	394	25.04	42
25.06	367	25.06	36
25.08	397	25.08	28
25.1	371	25.1	41
25.12	433	25.12	34
25.14	401	25.14	28
25.16	385	25.16	46
25.18	438	25.18	33
25.2	410	25.2	27
25.22	429	25.22	31
25.24	442	25.24	21
25.26	441	25.26	29
25.28	445	25.28	38
25.3	446	25.3	39
25.32	439	25.32	40
25.34	463	25.34	37
25.36	476	25.36	37
25.38	479	25.38	27
25.4	446	25.4	34
25.42	490	25.42	39
25.44	510	25.44	33
25.46	512	25.46	27
25.48	487	25.48	21
25.5	502	25.5	40
25.52	519	25.52	32
25.54	536	25.54	34
25.56	538	25.56	34
25.58	550	25.58	41
25.6	538	25.6	34
25.62	576	25.62	46
25.64	559	25.64	43
25.66	533	25.66	36
25.68	579	25.68	37
25.7	561	25.7	45
25.72	593	25.72	54
25.74	571	25.74	41
25.76	594	25.76	59
25.78	594	25.78	36
25.8	660	25.8	50

25.82	624	25.82	60
25.84	596	25.84	50
25.86	581	25.86	46
25.88	643	25.88	48
25.9	590	25.9	51
25.92	630	25.92	45
25.94	630	25.94	41
25.96	692	25.96	51
25.98	678	25.98	48
26	716	26	48
26.02	734	26.02	44
26.04	652	26.04	37
26.06	785	26.06	48
26.08	786	26.08	43
26.1	900	26.1	39
26.12	877	26.12	50
26.14	967	26.14	58
26.16	1037	26.16	69
26.18	1111	26.18	60
26.2	1179	26.2	68
26.22	1313	26.22	63
26.24	1402	26.24	48
26.26	1514	26.26	72
26.28	1634	26.28	70
26.3	1854	26.3	76
26.32	2005	26.32	84
26.34	2066	26.34	85
26.36	2222	26.36	110
26.38	2217	26.38	88
26.4	2375	26.4	111
26.42	2386	26.42	142
26.44	2526	26.44	120
26.46	2292	26.46	132
26.48	2202	26.48	155
26.5	2043	26.5	161
26.52	1861	26.52	196
26.54	1512	26.54	201
26.56	1339	26.56	189
26.58	997	26.58	155
26.6	838	26.6	142
26.62	694	26.62	109
26.64	580	26.64	87
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26.68	422	26.68	57
26.7	353	26.7	48
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26.78	244	26.78	30
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26.82	243	26.82	22
26.84	207	26.84	28
26.86	220	26.86	31
26.88	220	26.88	28
26.9	207	26.9	27
26.92	199	26.92	31

26.94	184	26.94	19
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26.98	182	26.98	25
27	152	27	27
27.02	142	27.02	31
27.04	134	27.04	20
27.06	158	27.06	28
27.08	151	27.08	27
27.1	135	27.1	27
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27.14	127	27.14	31
27.16	148	27.16	22
27.18	146	27.18	29
27.2	126	27.2	24
27.22	116	27.22	23
27.24	112	27.24	25
27.26	105	27.26	14
27.28	98	27.28	22
27.3	102	27.3	25
27.32	118	27.32	23
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27.36	113	27.36	14
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27.46	85	27.46	12
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29.82	42	29.82	13
29.84	47	29.84	17
29.86	48	29.86	12
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29.9	47	29.9	18
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29.96	43	29.96	9
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42.28	94	42.28	11
42.3	117	42.3	11
42.32	89	42.32	11
42.34	100	42.34	9
42.36	112	42.36	17
42.38	102	42.38	22
42.4	99	42.4	12
42.42	96	42.42	11
42.44	107	42.44	14
42.46	104	42.46	18
42.48	76	42.48	23
42.5	89	42.5	15
42.52	93	42.52	19
42.54	84	42.54	14
42.56	104	42.56	10
42.58	96	42.58	10
42.6	81	42.6	14

42.62	85	42.62	20
42.64	98	42.64	4
42.66	73	42.66	20
42.68	81	42.68	17
42.7	81	42.7	15
42.72	85	42.72	9
42.74	97	42.74	12
42.76	74	42.76	15
42.78	76	42.78	24
42.8	91	42.8	14
42.82	92	42.82	18
42.84	97	42.84	22
42.86	91	42.86	15
42.88	84	42.88	24
42.9	90	42.9	18
42.92	92	42.92	11
42.94	83	42.94	10
42.96	77	42.96	10
42.98	92	42.98	15
43	98	43	15
43.02	94	43.02	22
43.04	87	43.04	17
43.06	91	43.06	16
43.08	84	43.08	22
43.1	71	43.1	12
43.12	78	43.12	22
43.14	78	43.14	15
43.16	65	43.16	10
43.18	79	43.18	12
43.2	80	43.2	10
43.22	76	43.22	19
43.24	82	43.24	16
43.26	82	43.26	21
43.28	81	43.28	21
43.3	82	43.3	19
43.32	88	43.32	19
43.34	90	43.34	17
43.36	75	43.36	9
43.38	78	43.38	13
43.4	83	43.4	26
43.42	84	43.42	16
43.44	84	43.44	14
43.46	87	43.46	7
43.48	74	43.48	12
43.5	68	43.5	15
43.52	77	43.52	12
43.54	70	43.54	14
43.56	88	43.56	12
43.58	81	43.58	17
43.6	64	43.6	14
43.62	75	43.62	16
43.64	96	43.64	8
43.66	90	43.66	13
43.68	79	43.68	14
43.7	80	43.7	18
43.72	74	43.72	12

43.74	91	43.74	10
43.76	76	43.76	19
43.78	81	43.78	16
43.8	73	43.8	17
43.82	70	43.82	10
43.84	90	43.84	10
43.86	81	43.86	15
43.88	74	43.88	16
43.9	86	43.9	15
43.92	80	43.92	13
43.94	81	43.94	11
43.96	95	43.96	12
43.98	93	43.98	6
44	77	44	18
44.02	93	44.02	8
44.04	106	44.04	16
44.06	82	44.06	19
44.08	73	44.08	17
44.1	86	44.1	20
44.12	91	44.12	12
44.14	94	44.14	8
44.16	92	44.16	11
44.18	96	44.18	13
44.2	96	44.2	14
44.22	100	44.22	17
44.24	93	44.24	8
44.26	115	44.26	14
44.28	101	44.28	15
44.3	112	44.3	13
44.32	109	44.32	15
44.34	126	44.34	16
44.36	121	44.36	13
44.38	114	44.38	16
44.4	146	44.4	12
44.42	136	44.42	15
44.44	135	44.44	23
44.46	136	44.46	18
44.48	118	44.48	14
44.5	145	44.5	13
44.52	117	44.52	20
44.54	147	44.54	22
44.56	119	44.56	20
44.58	112	44.58	12
44.6	107	44.6	21
44.62	125	44.62	14
44.64	98	44.64	11
44.66	76	44.66	14
44.68	112	44.68	22
44.7	84	44.7	7
44.72	86	44.72	18
44.74	83	44.74	20
44.76	86	44.76	17
44.78	91	44.78	17
44.8	97	44.8	11
44.82	71	44.82	16
44.84	83	44.84	9

44.86	81	44.86	10
44.88	72	44.88	13
44.9	69	44.9	12
44.92	55	44.92	16
44.94	69	44.94	12
44.96	58	44.96	9
44.98	65	44.98	12
45	57	45	13
45.02	64	45.02	9
45.04	51	45.04	9
45.06	65	45.06	8
45.08	67	45.08	22
45.1	59	45.1	6
45.12	50	45.12	12
45.14	73	45.14	10
45.16	53	45.16	12
45.18	56	45.18	12
45.2	48	45.2	10
45.22	46	45.22	4
45.24	53	45.24	13
45.26	50	45.26	9
45.28	47	45.28	15
45.3	46	45.3	10
45.32	53	45.32	5
45.34	55	45.34	14
45.36	52	45.36	13
45.38	49	45.38	8
45.4	50	45.4	8
45.42	44	45.42	11
45.44	36	45.44	9
45.46	53	45.46	10
45.48	62	45.48	7
45.5	40	45.5	7
45.52	58	45.52	7
45.54	49	45.54	8
45.56	54	45.56	9
45.58	61	45.58	7
45.6	36	45.6	10
45.62	43	45.62	11
45.64	52	45.64	11
45.66	40	45.66	6
45.68	43	45.68	12
45.7	54	45.7	10
45.72	46	45.72	16
45.74	38	45.74	7
45.76	43	45.76	10
45.78	44	45.78	12
45.8	39	45.8	8
45.82	49	45.82	7
45.84	41	45.84	11
45.86	55	45.86	12
45.88	44	45.88	9
45.9	42	45.9	6
45.92	34	45.92	8
45.94	40	45.94	17
45.96	50	45.96	9

45.98	43	45.98	14
46	44	46	11
46.02	51	46.02	5
46.04	39	46.04	9
46.06	32	46.06	17
46.08	47	46.08	13
46.1	45	46.1	8
46.12	51	46.12	9
46.14	44	46.14	11
46.16	39	46.16	11
46.18	39	46.18	15
46.2	32	46.2	8
46.22	53	46.22	14
46.24	41	46.24	9
46.26	53	46.26	16
46.28	44	46.28	14
46.3	37	46.3	13
46.32	40	46.32	9
46.34	45	46.34	13
46.36	35	46.36	12
46.38	26	46.38	4
46.4	45	46.4	12
46.42	41	46.42	10
46.44	34	46.44	3
46.46	33	46.46	10
46.48	39	46.48	11
46.5	51	46.5	8
46.52	38	46.52	9
46.54	26	46.54	8
46.56	34	46.56	16
46.58	34	46.58	13
46.6	33	46.6	11
46.62	34	46.62	7
46.64	43	46.64	12
46.66	37	46.66	21
46.68	34	46.68	6
46.7	21	46.7	12
46.72	37	46.72	13
46.74	28	46.74	14
46.76	32	46.76	17
46.78	38	46.78	11
46.8	43	46.8	13
46.82	34	46.82	16
46.84	29	46.84	11
46.86	36	46.86	19
46.88	40	46.88	10
46.9	26	46.9	13
46.92	28	46.92	13
46.94	46	46.94	13
46.96	34	46.96	14
46.98	43	46.98	10
47	31	47	9
47.02	38	47.02	10
47.04	18	47.04	13
47.06	32	47.06	17
47.08	37	47.08	12

47.1	40	47.1	11
47.12	35	47.12	12
47.14	30	47.14	24
47.16	23	47.16	12
47.18	30	47.18	7
47.2	32	47.2	15
47.22	30	47.22	13
47.24	30	47.24	15
47.26	27	47.26	12
47.28	24	47.28	3
47.3	29	47.3	8
47.32	36	47.32	5
47.34	30	47.34	20
47.36	27	47.36	13
47.38	38	47.38	9
47.4	36	47.4	9
47.42	28	47.42	11
47.44	32	47.44	10
47.46	31	47.46	9
47.48	31	47.48	7
47.5	43	47.5	13
47.52	32	47.52	9
47.54	43	47.54	11
47.56	37	47.56	9
47.58	33	47.58	5
47.6	36	47.6	6
47.62	33	47.62	10
47.64	33	47.64	17
47.66	35	47.66	4
47.68	27	47.68	8
47.7	47	47.7	6
47.72	27	47.72	8
47.74	34	47.74	13
47.76	35	47.76	9
47.78	23	47.78	12
47.8	24	47.8	7
47.82	28	47.82	7
47.84	31	47.84	13
47.86	31	47.86	9
47.88	37	47.88	7
47.9	37	47.9	7
47.92	24	47.92	12
47.94	27	47.94	11
47.96	31	47.96	10
47.98	31	47.98	9
48	31	48	7
48.02	24	48.02	7
48.04	32	48.04	9
48.06	32	48.06	11
48.08	37	48.08	6
48.1	27	48.1	7
48.12	39	48.12	12
48.14	26	48.14	8
48.16	26	48.16	4
48.18	27	48.18	10
48.2	29	48.2	7

48.22	38	48.22	10
48.24	34	48.24	14
48.26	25	48.26	9
48.28	26	48.28	15
48.3	28	48.3	8
48.32	39	48.32	12
48.34	23	48.34	11
48.36	39	48.36	17
48.38	30	48.38	7
48.4	39	48.4	8
48.42	23	48.42	6
48.44	32	48.44	7
48.46	34	48.46	6
48.48	26	48.48	11
48.5	26	48.5	8
48.52	27	48.52	5
48.54	30	48.54	5
48.56	44	48.56	5
48.58	32	48.58	9
48.6	24	48.6	6
48.62	40	48.62	8
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48.68	25	48.68	4
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48.72	29	48.72	7
48.74	39	48.74	9
48.76	29	48.76	10
48.78	24	48.78	11
48.8	23	48.8	5
48.82	33	48.82	9
48.84	32	48.84	9
48.86	20	48.86	9
48.88	35	48.88	4
48.9	25	48.9	12
48.92	32	48.92	7
48.94	34	48.94	7
48.96	24	48.96	10
48.98	23	48.98	7
49	27	49	10
49.02	20	49.02	8
49.04	28	49.04	10
49.06	33	49.06	3
49.08	28	49.08	6
49.1	20	49.1	12
49.12	28	49.12	8
49.14	27	49.14	5
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49.18	40	49.18	12
49.2	29	49.2	5
49.22	29	49.22	7
49.24	16	49.24	6
49.26	28	49.26	10
49.28	24	49.28	7
49.3	27	49.3	7
49.32	25	49.32	6



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49.36	32	49.36	10
49.38	34	49.38	7
49.4	26	49.4	5
49.42	27	49.42	3
49.44	39	49.44	7
49.46	29	49.46	3
49.48	25	49.48	7
49.5	32	49.5	10
49.52	30	49.52	4
49.54	20	49.54	4
49.56	26	49.56	2
49.58	38	49.58	4
49.6	31	49.6	5
49.62	35	49.62	4
49.64	24	49.64	6
49.66	31	49.66	5
49.68	28	49.68	6
49.7	26	49.7	7
49.72	29	49.72	2
49.74	42	49.74	4
49.76	26	49.76	4
49.78	32	49.78	8
49.8	29	49.8	3
49.82	37	49.82	8
49.84	35	49.84	5
49.86	29	49.86	18
49.88	33	49.88	6
49.9	31	49.9	9
49.92	26	49.92	7
49.94	34	49.94	7
49.96	31	49.96	5
49.98	31	49.98	4
50	37	50	7
50.02	28	50.02	4
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50.44	26	50.44	11

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50.62	38	50.62	11
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50.66	29	50.66	3
50.68	30	50.68	2
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50.78	35	50.78	8
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50.82	32	50.82	6
50.84	25	50.84	9
50.86	30	50.86	5
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50.92	24	50.92	5
50.94	28	50.94	6
50.96	30	50.96	11
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51.02	40	51.02	9
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51.22	30	51.22	2
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51.32	31	51.32	6
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51.94	27	51.94	10
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52.02	29	52.02	5
52.04	33	52.04	6
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52.64	38	52.64	4
52.66	38	52.66	4
52.68	29	52.68	9

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52.74	32	52.74	6
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53	38	53	15
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53.04	40	53.04	6
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53.86	36	53.86	11
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54	37	54	8
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54.2	57	54.2	9
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54.24	59	54.24	8
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54.28	51	54.28	7
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54.42	68	54.42	6
54.44	67	54.44	9
54.46	71	54.46	11
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54.52	94	54.52	14
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54.58	106	54.58	11
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54.68	72	54.68	13
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54.78	46	54.78	11
54.8	54	54.8	17
54.82	45	54.82	10
54.84	32	54.84	7
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54.88	26	54.88	12
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67.6	14	67.6	5
67.62	22	67.62	11
67.64	16	67.64	8
67.66	11	67.66	4
67.68	20	67.68	11
67.7	15	67.7	9
67.72	13	67.72	10
67.74	14	67.74	11
67.76	9	67.76	9
67.78	18	67.78	7
67.8	16	67.8	8
67.82	12	67.82	7
67.84	21	67.84	7
67.86	22	67.86	4
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67.9	13	67.9	3
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67.94	12	67.94	4
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67.98	21	67.98	8
68	17	68	4
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68.04	11	68.04	5
68.06	14	68.06	10
68.08	10	68.08	11
68.1	19	68.1	8
68.12	12	68.12	7
68.14	18	68.14	6
68.16	19	68.16	11
68.18	17	68.18	5
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68.24	14	68.24	7
68.26	15	68.26	3
68.28	11	68.28	7
68.3	14	68.3	3
68.32	16	68.32	6
68.34	17	68.34	3
68.36	12	68.36	4

68.38	10	68.38	7
68.4	15	68.4	3
68.42	18	68.42	10
68.44	7	68.44	5
68.46	11	68.46	5
68.48	16	68.48	5
68.5	20	68.5	5
68.52	16	68.52	9
68.54	11	68.54	3
68.56	14	68.56	5
68.58	12	68.58	5
68.6	21	68.6	4
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68.72	17	68.72	3
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68.78	11	68.78	6
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68.84	19	68.84	5
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68.9	17	68.9	5
68.92	13	68.92	9
68.94	21	68.94	9
68.96	14	68.96	9
68.98	13	68.98	7
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69.28	16	69.28	6
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69.42	17	69.42	8
69.44	14	69.44	6
69.46	14	69.46	2
69.48	17	69.48	6

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69.72	16	69.72	4
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69.78	18	69.78	5
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70.68	12	70.68	6
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71.28	14	71.28	8
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71.42	14	71.42	5
71.44	18	71.44	9
71.46	17	71.46	1
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71.72	16	71.72	7

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71.94	13	71.94	4
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73.42	11	73.42	4
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73.54	12	73.54	4
73.56	14	73.56	4
73.58	16	73.58	4
73.6	17	73.6	7
73.62	15	73.62	6
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73.96	14	73.96	4

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74	11	74	3
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74.16	11	74.16	8
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75	9	75	5
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75.04	14	75.04	4
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75.08	16	75.08	4

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76	9	76	5
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76.2	17	76.2	5



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85.76	13	85.76	2
85.78	16	85.78	3
85.8	19	85.8	5
85.82	19	85.82	9
85.84	22	85.84	1
85.86	11	85.86	4
85.88	13	85.88	6
85.9	27	85.9	1
85.92	23	85.92	1
85.94	15	85.94	3
85.96	15	85.96	2
85.98	8	85.98	0
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86.02	16	86.02	4
86.04	17	86.04	2
86.06	22	86.06	4
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86.16	19	86.16	3
86.18	20	86.18	4
86.2	8	86.2	3
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86.26	15	86.26	2
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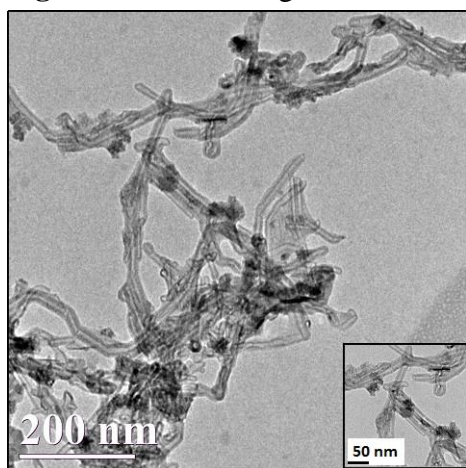
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86.96	19	86.96	7
86.98	23	86.98	5
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87.02	16	87.02	5
87.04	17	87.04	3
87.06	12	87.06	4
87.08	14	87.08	2
87.1	16	87.1	9
87.12	23	87.12	2
87.14	15	87.14	4
87.16	14	87.16	5
87.18	7	87.18	7
87.2	17	87.2	2
87.22	12	87.22	4
87.24	24	87.24	3
87.26	20	87.26	1
87.28	15	87.28	3
87.3	13	87.3	5
87.32	14	87.32	2
87.34	11	87.34	4
87.36	13	87.36	2
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87.4	15	87.4	6

87.42	19	87.42	2
87.44	14	87.44	2
87.46	4	87.46	5
87.48	12	87.48	3
87.5	13	87.5	4
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87.54	14	87.54	2
87.56	11	87.56	3
87.58	14	87.58	6
87.6	10	87.6	2
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87.64	12	87.64	3
87.66	5	87.66	4
87.68	9	87.68	4
87.7	18	87.7	5
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87.74	11	87.74	5
87.76	12	87.76	4
87.78	24	87.78	3
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87.84	10	87.84	2
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87.88	11	87.88	3
87.9	10	87.9	2
87.92	13	87.92	0
87.94	14	87.94	2
87.96	8	87.96	3
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88.04	8	88.04	3
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88.14	7	88.14	7
88.16	10	88.16	4
88.18	9	88.18	1
88.2	9	88.2	2
88.22	13	88.22	4
88.24	13	88.24	2
88.26	11	88.26	4
88.28	9	88.28	4
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88.32	7	88.32	4
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88.38	6	88.38	1
88.4	6	88.4	8
88.42	8	88.42	4
88.44	13	88.44	6
88.46	18	88.46	5
88.48	14	88.48	1
88.5	10	88.5	2
88.52	13	88.52	4

88.54	16	88.54	2
88.56	11	88.56	0
88.58	14	88.58	2
88.6	15	88.6	5
88.62	14	88.62	2
88.64	14	88.64	3
88.66	13	88.66	3
88.68	12	88.68	7
88.7	10	88.7	3
88.72	9	88.72	5
88.74	15	88.74	2
88.76	10	88.76	5
88.78	18	88.78	6
88.8	7	88.8	5
88.82	10	88.82	3
88.84	14	88.84	5
88.86	10	88.86	1
88.88	17	88.88	6
88.9	9	88.9	2
88.92	19	88.92	1
88.94	9	88.94	5
88.96	16	88.96	2
88.98	5	88.98	2
89	10	89	2
89.02	9	89.02	4
89.04	9	89.04	4
89.06	8	89.06	3
89.08	11	89.08	4
89.1	14	89.1	4
89.12	13	89.12	4
89.14	13	89.14	3
89.16	8	89.16	5
89.18	11	89.18	5
89.2	11	89.2	8
89.22	11	89.22	4
89.24	8	89.24	3
89.26	8	89.26	4
89.28	10	89.28	6
89.3	9	89.3	3
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89.34	8	89.34	5
89.36	11	89.36	7
89.38	8	89.38	0
89.4	16	89.4	2
89.42	11	89.42	7
89.44	12	89.44	9
89.46	10	89.46	3
89.48	13	89.48	4
89.5	8	89.5	5
89.52	10	89.52	3
89.54	8	89.54	1
89.56	12	89.56	3
89.58	14	89.58	4
89.6	16	89.6	4
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89.78	12	89.78	5
89.8	3	89.8	2
89.82	14	89.82	3
89.84	8	89.84	1
89.86	6	89.86	15
89.88	11	89.88	2
89.9	4	89.9	5
89.92	6	89.92	3
89.94	11	89.94	5
89.96	13	89.96	5
89.98	13	89.98	4
90	10	90	3

**Figure 1b.** TEM images of the CNT-Fe<sub>3</sub>O<sub>4</sub> NHs



The TEM (JEOL JEM 2010, Japan) images of the CNT-Fe<sub>3</sub>O<sub>4</sub> NHs. The black, spherically-shaped Fe<sub>3</sub>O<sub>4</sub> nanomaterials were deposited on the surfaces of the tubular CNT. The TEM images were captured on the JEOL JEM 2010 TEM at an acceleration voltage of 200 kV.

**Figure 1c.** Raman spectrum data

The Raman spectrum measurements were performed on the Renishaw InVia Spectrophotometer (Renishaw PLC, West Dundee, IL). The Raman spectra were recorded at wavenumbers ranging from 3200 cm<sup>-1</sup> to 100 cm<sup>-1</sup> with an incident laser wavelength of 514 nm.

CNT		CNT-Fe <sub>3</sub> O <sub>4</sub> NHs	
Raman Shift (cm <sup>-1</sup> )	Intensity Unit (a.u.)	Raman Shift (cm <sup>-1</sup> )	Intensity Unit (a.u.)
3202.0293	826.029785	3202.0293	117.62236
3201.0938	863.455078	3201.0938	125.642067

3200.1582	815.203796	3200.1582	157.69516
3199.2227	895.241638	3199.2227	122.928703
3198.2871	943.190247	3198.2871	152.299835
3197.3516	846.86261	3197.3516	120.217094
3196.4150	798.645447	3196.4150	165.605408
3195.4795	854.598083	3195.4795	114.836617
3194.5430	883.830627	3194.5430	162.881165
3193.6064	800.924194	3193.6064	114.799133
3192.6699	843.502441	3192.6699	120.119019
3191.7334	851.371399	3191.7334	69.39077
3190.7969	869.911499	3190.7969	176.11705
3189.8594	795.065369	3189.8594	149.408264
3188.9219	848.286987	3188.9219	144.048737
3187.9844	840.147095	3187.9844	106.685349
3187.0479	746.675537	3187.0479	146.668411
3186.1094	775.882507	3186.1094	135.979416
3185.1719	826.406616	3185.1719	125.293907
3184.2344	807.613953	3184.2344	106.6157
3183.2959	759.512878	3183.2959	143.9077
3182.3574	740.737183	3182.3574	135.89064
3181.4189	743.280334	3181.4189	133.204361
3180.4805	775.122864	3180.4805	143.837234
3179.5420	785.64917	3179.5420	157.129837
3178.6035	737.590759	3178.6035	106.511307
3177.6641	835.977234	3177.6641	181.039658
3176.7246	758.645264	3176.7246	103.814613
3175.7852	798.443542	3175.7852	117.105057
3174.8457	758.397522	3174.8457	157.001587
3173.9063	811.48584	3173.9063	183.582047
3172.9668	811.353333	3172.9668	143.649445
3172.0264	760.685791	3172.0264	159.584427
3171.0869	768.53949	3171.0869	148.921143
3170.1465	800.320435	3170.1465	156.873444
3169.2061	701.827515	3169.2061	183.432205
3168.2656	746.898987	3168.2656	108.978142
3167.3242	706.913452	3167.3242	151.481461
3166.3838	759.940735	3166.3838	124.885361
3165.4424	762.473267	3165.4424	66.417534
3164.5020	815.474121	3164.5020	154.063507
3163.5605	831.27594	3163.5605	146.070847
3162.6191	817.863159	3162.6191	138.080795
3161.6768	769.940186	3161.6768	180.537689
3160.7354	783.087036	3160.7354	153.962875
3159.7939	793.575562	3159.7939	183.132813
3158.8516	671.377319	3158.8516	119.414932
3157.9092	708.412903	3157.9092	143.274521
3156.9668	673.810791	3156.9668	198.959869
3156.0244	716.13855	3156.0244	119.356422
3155.0811	737.237	3155.0811	175.027481
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3148.4785	701.958557	3148.4785	137.742813

3147.5342	736.273926	3147.5342	124.477966
3146.5898	728.209534	3146.5898	97.97728
3145.6455	733.385742	3145.6455	132.380096
3144.7012	717.382874	3144.7012	164.124496
3143.7568	775.493835	3143.7568	156.157471
3142.8125	703.916931	3142.8125	92.620644
3141.8672	687.926636	3141.8672	132.293579
3140.9219	698.395996	3140.9219	137.562851
3139.9775	737.95697	3139.9775	137.540359
3139.0322	735.191772	3139.0322	137.517883
3138.0859	721.850891	3138.0859	148.071976
3137.1406	740.238892	3137.1406	129.541809
3136.1953	711.04187	3136.1953	129.52063
3135.2490	739.996948	3135.2490	129.499466
3134.3027	676.458069	3134.3027	147.975189
3133.3564	742.397034	3133.3564	129.457138
3132.4102	752.841858	3132.4102	100.378914
3131.4639	773.847778	3131.4639	171.672714
3130.5166	710.344788	3130.5166	97.705414
3129.5703	675.905334	3129.5703	137.293274
3128.6230	694.273621	3128.6230	116.152245
3127.6758	760.144897	3127.6758	147.805954
3126.7285	720.436279	3126.7285	108.197388
3125.7813	754.619324	3125.7813	137.203522
3124.8330	722.838806	3124.8330	110.80011
3123.8857	685.793274	3123.8857	84.405327
3122.9375	698.867371	3122.9375	113.401115
3121.9893	680.295471	3121.9893	76.467316
3121.0410	677.547852	3121.0410	110.727661
3120.0928	635.262024	3120.0928	150.248688
3119.1445	719.494446	3119.1445	147.588608
3118.1953	698.296204	3118.1953	73.782242
3117.2461	650.758301	3117.2461	123.828506
3116.2979	756.02063	3116.2979	158.053101
3115.3486	703.221252	3115.3486	105.351501
3114.3984	671.505981	3114.3984	176.434906
3113.4492	671.396179	3113.4492	134.279236
3112.5000	639.696411	3112.5000	155.31723
3111.5498	723.817871	3111.5498	163.188034
3110.5996	642.118835	3110.5996	142.108261
3109.6494	665.694641	3109.6494	168.397064
3108.6992	681.370422	3108.6992	115.754044
3107.7490	673.36792	3107.7490	142.038544
3106.7988	710.076599	3106.7988	142.01532
3105.8477	646.852844	3105.8477	115.697258
3104.8965	615.198425	3104.8965	136.710754
3103.9453	686.070618	3103.9453	131.431152
3102.9941	659.676453	3102.9941	152.435196
3102.0430	720.00708	3102.0430	136.643677
3101.0918	648.951294	3101.0918	133.993988
3100.1396	675.114197	3100.1396	110.329941
3099.1885	614.594849	3099.1885	118.191315
3098.2363	690.649536	3098.2363	91.911537
3097.2842	758.802551	3097.2842	123.403877
3096.3320	666.796936	3096.3320	141.759979
3095.3789	669.312622	3095.3789	128.613007

3094.4268	666.578735	3094.4268	160.083878
3093.4736	695.332581	3093.4736	136.442612
3092.5205	655.86676	3092.5205	120.679489
3091.5674	632.1521	3091.5674	107.544556
3090.6143	668.765198	3090.6143	123.262604
3089.6611	684.388855	3089.6611	131.108978
3088.7070	684.276855	3088.7070	70.787262
3087.7539	647.46637	3087.7539	133.687393
3086.7998	689.294739	3086.7998	110.077484
3085.8457	623.670349	3085.8457	128.40271
3084.8916	613.088135	3084.8916	123.141632
3083.9375	652.28186	3083.9375	149.317535
3082.9824	657.413452	3082.9824	130.958862
3082.0283	704.443359	3082.0283	91.656197
3081.0732	628.39679	3081.0732	178.045761
3080.1182	630.911804	3080.1182	136.130356
3079.1631	643.895874	3079.1631	146.577927
3078.2080	601.917908	3078.2080	115.149513
3077.2529	651.534912	3077.2529	120.363884
3076.2969	567.710571	3076.2969	120.344177
3075.3408	646.090149	3075.3408	86.319733
3074.3857	598.908569	3074.3857	162.149918
3073.4287	611.88501	3073.4287	109.825516
3072.4727	585.640198	3072.4727	130.723251
3071.5166	624.754883	3071.5166	133.315903
3070.5605	616.811768	3070.5605	138.521286
3069.6035	661.134888	3069.6035	120.206345
3068.6465	655.801147	3068.6465	75.769852
3067.6895	626.958191	3067.6895	125.391632
3066.7324	587.677063	3066.7324	101.864021
3065.7754	613.695557	3065.7754	185.414398
3064.8174	543.096924	3064.8174	107.052757
3063.8604	592.60968	3063.8604	135.751999
3062.9023	634.275635	3062.9023	114.848259
3061.9443	634.171753	3061.9443	138.317307
3060.9863	579.271912	3060.9863	153.950653
3060.0283	623.528442	3060.0283	153.925446
3059.0693	644.294189	3059.0693	140.857834
3058.1113	628.540344	3058.1113	119.97036
3057.1523	618.006958	3057.1523	112.127838
3056.1934	547.511414	3056.1934	159.039032
3055.2344	656.906067	3055.2344	114.697884
3054.2754	570.789185	3054.2754	119.891785
3053.3154	620.208069	3053.3154	101.630737
3052.3564	630.528442	3052.3564	132.879959
3051.3965	643.4505	3051.3965	70.336693
3050.4375	557.39209	3050.4375	109.394714
3049.4766	656.260803	3049.4766	85.938911
3048.5156	666.56842	3048.5156	132.792923
3047.5566	630.012207	3047.5566	101.530899
3046.5957	637.717834	3046.5957	124.940636
3045.6348	692.26593	3045.6348	130.125168
3044.6738	684.346313	3044.6738	104.083084
3043.7129	600.981323	3043.7129	140.489151
3042.7520	551.459595	3042.7520	117.055107
3041.7910	650.199585	3041.7910	124.838326



3040.8301	678.697205	3040.8301	101.41452
3039.8691	605.787476	3039.8691	166.396561
3038.9063	587.491577	3038.9063	132.575531
3037.9453	608.18811	3037.9453	129.954712
3036.9824	618.483093	3036.9824	103.946739
3036.0195	610.587036	3036.0195	127.313896
3035.0586	628.671692	3035.0586	135.086487
3034.0957	555.841736	3034.0957	150.648697
3033.1328	612.883911	3033.1328	122.057388
3032.1699	607.590393	3032.1699	101.26506
3031.2070	623.067505	3031.2070	101.248466
3030.2441	568.455933	3030.2441	116.806007
3029.2813	581.33905	3029.2813	111.596336
3028.3164	596.812805	3028.3164	147.905792
3027.3535	591.526184	3027.3535	111.559761
3026.3906	632.933044	3026.3906	98.571541
3025.4258	586.145142	3025.4258	106.336067
3024.4609	601.60791	3024.4609	121.877464
3023.4980	622.251038	3023.4980	119.264778
3022.5332	622.149048	3022.5332	132.206665
3021.5684	593.53656	3021.5684	124.409409
3020.6035	614.170776	3020.6035	145.120514
3019.6387	616.661072	3019.6387	129.550644
3018.6738	580.291748	3018.6738	108.804703
3017.7090	624.229431	3017.7090	124.32785
3016.7441	611.178406	3016.7441	132.076691
3015.7773	618.84613	3015.7773	168.305435
3014.8125	587.677979	3014.8125	103.555595
3013.8457	616.054749	3013.8457	116.480942
3012.8809	597.837463	3012.8809	183.750916
3011.9141	600.327087	3011.9141	160.432236
3010.9473	646.798096	3010.9473	90.551735
3009.9824	649.278809	3009.9824	170.7267
3009.0156	618.13623	3009.0156	108.62645
3008.0488	620.620789	3008.0488	162.912949
3007.0820	641.203003	3007.0820	155.129745
3006.1133	625.587402	3006.1133	144.764023
3005.1465	594.469055	3005.1465	77.539436
3004.1797	511.676361	3004.1797	142.132324
3003.2129	602.025452	3003.2129	111.103409
3002.2441	607.093506	3002.2441	152.41922
3001.2754	627.657532	3001.2754	134.313553
3000.3086	562.991394	3000.3086	90.388519
2999.3398	599.048523	2999.3398	131.687393
2998.3711	547.316589	2998.3711	118.757378
2997.4023	624.664612	2997.4023	108.412865
2996.4336	619.400452	2996.4336	141.945938
2995.4648	606.39679	2995.4648	147.083481
2994.4961	577.91748	2994.4961	95.459579
2993.5273	582.981812	2993.5273	123.819145
2992.5586	618.994141	2992.5586	134.115402
2991.5879	559.582092	2991.5879	118.621086
2990.6191	626.52594	2990.6191	126.33651
2989.6484	603.222351	2989.6484	154.672394
2988.6797	636.630188	2988.6797	141.759766
2987.7090	579.831177	2987.7090	97.92704

2986.7383	638.997925	2986.7383	146.866455
2985.7695	600.250366	2985.7695	110.775818
2984.7988	636.212524	2984.7988	128.787949
2983.8281	633.532776	2983.8281	175.122879
2982.8555	610.254578	2982.8555	190.543625
2981.8848	571.537109	2981.8848	198.23584
2980.9141	630.646912	2980.9141	190.481094
2979.9434	643.411621	2979.9434	141.550552
2978.9707	658.745422	2978.9707	102.92897
2978.0000	604.608459	2978.0000	156.940918
2977.0273	673.963501	2977.0273	136.336121
2976.0547	658.421143	2976.0547	169.749191
2975.0840	599.167725	2975.0840	192.865158
2974.1113	591.356079	2974.1113	113.12899
2973.1387	604.112488	2973.1387	210.796692
2972.1660	642.567383	2972.1660	143.935089
2971.1934	603.914185	2971.1934	143.911469
2970.2207	698.883789	2970.2207	151.596115
2969.2461	652.527039	2969.2461	190.106293
2968.2734	613.891174	2968.2734	154.114944
2967.3008	670.289917	2967.3008	82.181137
2966.3262	652.20575	2966.3262	141.225647
2965.3535	536.569336	2965.3535	182.279541
2964.3789	610.921265	2964.3789	189.950302
2963.4043	639.052185	2963.4043	174.520279
2962.4297	641.513306	2962.4297	200.152161
2961.4551	610.620422	2961.4551	182.159866
2960.4824	659.259155	2960.4824	112.869278
2959.5059	636.06781	2959.5059	141.063431
2958.5313	679.557678	2958.5313	115.396584
2957.5566	592.271851	2957.5566	123.069473
2956.5820	615.246338	2956.5820	184.573898
2955.6055	589.514282	2955.6055	164.038757
2954.6309	622.732361	2954.6309	181.950607
2953.6543	663.626343	2953.6543	130.675446
2952.6797	625.089722	2952.6797	102.473717
2951.7031	727.443909	2951.7031	148.5625
2950.7266	681.22644	2950.7266	133.172089
2949.7500	647.827026	2949.7500	158.756027
2948.7734	675.882385	2948.7734	153.609634
2947.7969	693.689575	2947.7969	145.905182
2946.8203	685.897644	2946.8203	150.999863
2945.8438	639.724792	2945.8438	150.975052
2944.8672	567.9823	2944.8672	168.859604
2943.8887	667.65332	2943.8887	156.04158
2942.9121	670.101257	2942.9121	158.573593
2941.9336	626.518494	2941.9336	132.975357
2940.9570	677.551575	2940.9570	148.294296
2939.9785	726.011414	2939.9785	196.841125
2939.0000	713.112366	2939.0000	122.685997
2938.0215	659.328918	2938.0215	132.888
2937.0430	641.334778	2937.0430	148.196884
2936.0645	666.776367	2936.0645	166.05542
2935.0859	735.632385	2935.0859	247.765076
2934.1074	674.218872	2934.1074	109.815956
2933.1289	681.768433	2933.1289	150.652954

2932.1484	727.610779	2932.1484	148.07518
2931.1699	676.439209	2931.1699	150.603439
2930.1895	673.775879	2930.1895	153.130875
2929.2109	668.561646	2929.2109	155.657471
2928.2305	594.46283	2928.2305	132.669815
2927.2500	737.216858	2927.2500	160.708176
2926.2695	706.489624	2926.2695	178.535294
2925.2891	688.522949	2925.2891	124.954163
2924.3086	594.072144	2924.3086	188.675278
2923.3281	662.804199	2923.3281	150.405563
2922.3477	700.927673	2922.3477	147.832016
2921.3672	670.231567	2921.3672	135.065674
2920.3848	756.753052	2920.3848	206.387192
2919.4043	741.343262	2919.4043	208.900848
2918.4219	667.353943	2918.4219	157.923462
2917.4414	697.805054	2917.4414	129.883423
2916.4590	682.412476	2916.4590	112.037872
2915.4766	682.300293	2915.4766	152.753799
2914.4961	654.187866	2914.4961	112.001038
2913.5137	641.355042	2913.5137	152.703583
2912.5313	648.883545	2912.5313	155.223114
2911.5469	704.749756	2911.5469	89.047806
2910.5645	625.77594	2910.5645	155.172089
2909.5820	701.97467	2909.5820	147.516418
2908.5996	714.574097	2908.5996	96.632797
2907.6152	716.999146	2907.6152	134.755157
2906.6328	653.327942	2906.6328	124.564476
2905.6484	663.38739	2905.6484	162.669708
2904.6641	706.480347	2904.6641	142.312592
2903.6816	655.54657	2903.6816	129.584793
2902.6973	685.924316	2902.6973	152.427628
2901.7129	673.111328	2901.7129	134.622269
2900.7285	678.079895	2900.7285	172.694504
2899.7441	685.585999	2899.7441	121.88195
2898.7598	639.775024	2898.7598	83.78006
2897.7734	728.512817	2897.7734	119.30349
2896.7891	680.171875	2896.7891	152.277283
2895.8047	639.459412	2895.8047	137.027008
2894.8184	641.891357	2894.8184	131.930237
2893.8340	649.395874	2893.8340	104.004807
2892.8477	664.506775	2892.8477	159.78598
2891.8613	699.899597	2891.8613	124.257538
2890.8750	656.681824	2890.8750	134.378906
2889.8887	651.503723	2889.8887	119.146599
2888.9023	661.535034	2888.9023	197.700119
2887.9160	656.357788	2887.9160	121.641602
2886.9297	648.648438	2886.9297	131.756714
2885.9434	633.341553	2885.9434	146.935242
2884.9551	671.231628	2884.9551	146.911072
2883.9688	635.66571	2883.9688	164.614624
2882.9824	572.25824	2882.9824	96.220406
2881.9941	612.671265	2881.9941	106.331375
2881.0059	599.914001	2881.0059	93.657463
2880.0195	615.000488	2880.0195	131.605042
2879.0313	660.447388	2879.0313	131.583389
2878.0430	592.027832	2878.0430	126.501671

2877.0547	655.170837	2877.0547	111.303154
2876.0664	644.946228	2876.0664	177.044067
2875.0762	649.897644	2875.0762	151.727081
2874.0879	566.354553	2874.0879	123.890053
2873.0996	589.012878	2873.0996	139.037384
2872.1094	667.269592	2872.1094	139.014496
2871.1211	626.72583	2871.1211	176.898422
2870.1309	661.996521	2870.1309	121.281815
2869.1426	591.151489	2869.1426	131.367004
2868.1523	603.683594	2868.1523	55.569199
2867.1621	613.686035	2867.1621	131.323761
2866.1719	669.135925	2866.1719	148.977432
2865.1816	628.631775	2865.1816	123.70665
2864.1914	668.915649	2864.1914	189.31575
2863.2012	572.901367	2863.2012	126.18972
2862.2109	661.125305	2862.2109	151.40274
2861.2188	671.108276	2861.2188	138.763
2860.2285	643.249756	2860.2285	151.35289
2859.2363	658.276672	2859.2363	151.327972
2858.2461	590.081909	2858.2461	141.216187
2857.2539	640.410828	2857.2539	141.192932
2856.2617	647.868042	2856.2617	105.877266
2855.2715	627.597595	2855.2715	141.146439
2854.2793	642.614563	2854.2793	151.20343
2853.2871	571.958801	2853.2871	158.737457
2852.2930	649.960632	2852.2930	151.153641
2851.3008	576.808044	2851.3008	120.903
2850.3086	619.525818	2850.3086	90.662315
2849.3164	662.229492	2849.3164	141.007034
2848.3223	599.181213	2848.3223	171.194641
2847.3301	641.874146	2847.3301	135.9263
2846.3359	654.352112	2846.3359	143.454117
2845.3438	601.40155	2845.3438	108.20195
2844.3496	649.104797	2844.3496	118.247772
2843.3555	616.296448	2843.3555	171.053696
2842.3613	626.255249	2842.3613	183.600937
2841.3672	651.298767	2841.3672	95.557343
2840.3730	663.762756	2840.3730	110.627121
2839.3789	590.752075	2839.3789	110.608894
2838.3828	560.493652	2838.3828	118.130951
2837.3887	628.252625	2837.3887	140.728577
2836.3945	668.350647	2836.3945	138.19281
2835.3984	620.509094	2835.3984	155.75531
2834.4043	617.895081	2834.4043	155.729645
2833.4082	612.770569	2833.4082	150.68129
2832.4121	720.640076	2832.4121	138.101746
2831.4160	647.716003	2831.4160	112.973724
2830.4199	642.58905	2830.4199	153.116928
2829.4238	727.812988	2829.4238	183.208099
2828.4277	627.321594	2828.4277	140.520035
2827.4316	652.306946	2827.4316	110.390411
2826.4355	602.030273	2826.4355	160.541412
2825.4375	632.027588	2825.4375	165.531036
2824.4414	651.984497	2824.4414	132.904541
2823.4434	656.891479	2823.4434	127.868195
2822.4473	629.208374	2822.4473	117.819893

2821.4492	583.989624	2821.4492	177.953918
2820.4512	654.060791	2820.4512	120.287041
2819.4531	651.447388	2819.4531	212.97319
2818.4551	623.783325	2818.4551	182.876236
2817.4570	633.699463	2817.4570	145.274979
2816.4590	656.133972	2816.4590	152.764023
2815.4609	643.506226	2815.4609	147.731003
2814.4629	673.4422	2814.4629	125.175133
2813.4629	650.803406	2813.4629	142.676132
2812.4648	705.755005	2812.4648	147.657959
2811.4648	695.629578	2811.4648	147.633621
2810.4668	683.005615	2810.4668	182.635208
2809.4668	635.365662	2809.4668	145.083496
2808.4668	645.265015	2808.4668	185.076019
2807.4668	650.159851	2807.4668	140.034439
2806.4688	647.55249	2806.4688	127.51033
2805.4668	674.943359	2805.4668	187.484268
2804.4668	697.326477	2804.4668	172.457092
2803.4668	692.213562	2803.4668	139.942093
2802.4668	692.099426	2802.4668	202.382858
2801.4648	597.055908	2801.4648	137.397797
2800.4648	644.414307	2800.4648	179.836548
2799.4629	644.308044	2799.4629	167.320297
2798.4629	669.170837	2798.4629	157.305084
2797.4609	671.556946	2797.4609	139.80368
2796.4590	691.414856	2796.4590	162.245361
2795.4570	666.344116	2795.4570	184.679642
2794.4551	628.805298	2794.4551	157.201324
2793.4531	726.000671	2793.4531	134.721771
2792.4512	648.553406	2792.4512	192.071579
2791.4492	688.350769	2791.4492	149.641479
2790.4473	695.718079	2790.4473	164.578476
2789.4434	670.671326	2789.4434	186.990143
2788.4414	702.966919	2788.4414	157.045807
2787.4375	715.312866	2787.4375	206.867477
2786.4355	720.178772	2786.4355	204.341385
2785.4316	722.551514	2785.4316	176.900543
2784.4277	707.485413	2784.4277	166.906784
2783.4238	759.674133	2783.4238	221.6754
2782.4199	677.368103	2782.4199	156.890411
2781.4160	682.236145	2781.4160	194.213211
2780.4121	794.151184	2780.4121	194.181168
2779.4082	711.880127	2779.4082	228.996414
2778.4023	657.011719	2778.4023	176.69632
2777.3984	778.828491	2777.3984	169.202362
2776.3926	763.772827	2776.3926	199.028748
2775.3887	736.284851	2775.3887	221.382935
2774.3828	738.65033	2774.3828	201.450104
2773.3770	818.100525	2773.3770	208.87674
2772.3730	793.103333	2772.3730	218.787125
2771.3672	783.029236	2771.3672	253.552322
2770.3613	780.414551	2770.3613	226.171097
2769.3555	750.465942	2769.3555	206.253876
2768.3477	802.518127	2768.3477	233.550171
2767.3418	839.648193	2767.3418	238.47995
2766.3359	782.383179	2766.3359	238.440582

2765.3281	740.037109	2765.3281	230.951187
2764.3223	767.227295	2764.3223	235.878937
2763.3145	826.681213	2763.3145	196.119568
2762.3086	838.955322	2762.3086	245.729523
2761.3008	776.77417	2761.3008	268.024323
2760.2930	828.753174	2760.2930	267.980072
2759.2852	878.23407	2759.2852	258.012268
2758.2773	905.374329	2758.2773	282.774445
2757.2695	910.184937	2757.2695	277.767609
2756.2617	892.677063	2756.2617	322.355591
2755.2520	909.884399	2755.2520	295.03064
2754.2441	959.310913	2754.2441	359.431732
2753.2344	1006.242676	2753.2344	327.152802
2752.2266	963.950134	2752.2266	421.26358
2751.2168	991.044678	2751.2168	331.999969
2750.2090	941.336975	2750.2090	364.148773
2749.1992	975.856628	2749.1992	356.658264
2748.1895	1002.935669	2748.1895	460.607483
2747.1797	1074.573364	2747.1797	396.156067
2746.1699	1017.457764	2746.1699	423.321869
2745.1602	1054.417114	2745.1602	400.975525
2744.1504	1118.586426	2744.1504	423.182007
2743.1387	1140.670654	2743.1387	398.368713
2742.1289	1076.160034	2742.1289	484.890503
2741.1172	1120.505615	2741.1172	479.863342
2740.1074	1192.040894	2740.1074	469.891632
2739.0957	1209.152832	2739.0957	514.322693
2738.0840	1248.509888	2738.0840	526.599182
2737.0742	1218.640869	2737.0742	566.062439
2736.0625	1297.526978	2736.0625	546.197083
2735.0508	1339.320801	2735.0508	541.164673
2734.0391	1376.159424	2734.0391	667.079102
2733.0254	1410.515625	2733.0254	681.790405
2732.0137	1395.463501	2732.0137	691.557129
2731.0020	1494.010376	2731.0020	674.156799
2729.9883	1501.170654	2729.9883	703.673706
2728.9766	1552.763672	2728.9766	767.741638
2727.9629	1535.229492	2727.9629	829.320129
2726.9512	1623.816895	2726.9512	792.165955
2725.9375	1685.233521	2725.9375	831.513428
2724.9238	1655.351074	2724.9238	811.640076
2723.9102	1731.541504	2723.9102	873.170532
2722.8965	1812.63916	2722.8965	887.823242
2721.8828	1849.32605	2721.8828	904.93689
2720.8691	1947.634766	2720.8691	981.213501
2719.8535	1905.408691	2719.8535	958.866699
2718.8398	1900.164551	2718.8398	983.353699
2717.8262	2165.977539	2717.8262	1069.435913
2716.8105	2039.969116	2716.8105	1133.316162
2715.7969	2209.601074	2715.7969	1017.3526
2714.7813	2253.568359	2714.7813	1014.721497
2713.7656	2314.758545	2713.7656	1083.504028
2712.7500	2390.700928	2712.7500	1039.006958
2711.7344	2429.692871	2711.7344	1188.998657
2710.7188	2510.513672	2710.7188	1169.111694
2709.7031	2608.533691	2709.7031	1227.979614

2708.6875	2691.758545	2708.6875	1181.027466
2707.6699	2674.093018	2707.6699	1166.071777
2706.6543	2789.254883	2706.6543	1133.903442
2705.6387	2828.141602	2705.6387	1177.982422
2704.6211	2921.110107	2704.6211	1190.081909
2703.6035	2923.085449	2703.6035	1184.96814
2702.5879	3097.122314	2702.5879	1142.985596
2701.5703	3086.779785	2701.5703	1123.13562
2700.5527	3142.785156	2700.5527	1120.492676
2699.5352	3294.587891	2699.5352	1105.566406
2698.5176	3222.807129	2698.5176	1080.819458
2697.5000	3291.042236	2697.5000	1041.344727
2696.4805	3329.787354	2696.4805	1085.373169
2695.4629	3402.89209	2695.4629	999.261963
2694.4453	3431.786621	2694.4453	1043.282837
2693.4258	3460.671387	2693.4258	986.659546
2692.4063	3531.26416	2692.4063	1018.397949
2691.3887	3663.172363	2691.3887	1018.229431
2690.3691	3547.268066	2690.3691	939.559875
2689.3496	3637.432861	2689.3496	922.235168
2688.3301	3734.925049	2688.3301	993.200684
2687.3105	3609.258057	2687.3105	914.574219
2686.2910	3638.079346	2686.2910	865.392151
2685.2715	3691.4021	2685.2715	801.519592
2684.2500	3614.818848	2684.2500	769.527527
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2682.2109	3706.719238	2682.2109	754.573425
2681.1895	3620.373047	2681.1895	722.604919
2680.1680	3605.079346	2680.1680	710.239807
2679.1484	3543.265381	2679.1484	651.353577
2678.1270	3483.919922	2678.1270	619.417969
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2676.0840	3438.712158	2676.0840	616.765442
2675.0625	3306.000732	2675.0625	594.639648
2674.0410	3165.993408	2674.0410	574.967896
2673.0195	3317.137695	2673.0195	540.624939
2671.9961	3079.340088	2671.9961	648.153381
2670.9746	3205.994141	2670.9746	520.882324
2669.9512	3144.337158	2669.9512	520.796143
2668.9297	3041.141357	2668.9297	530.488464
2667.9063	2994.197266	2667.9063	457.073395
2666.8828	2895.947998	2666.8828	439.890839
2665.8594	2900.355469	2665.8594	488.686676
2664.8359	2789.938965	2664.8359	459.289429
2663.8125	2750.39502	2663.8125	444.557648
2662.7891	2652.250977	2662.7891	437.157379
2661.7656	2556.580811	2661.7656	446.852234
2660.7422	2451.177002	2660.7422	424.805542
2659.7168	2553.293213	2659.7168	412.530182
2658.6934	2486.974121	2658.6934	405.140045
2657.6680	2347.470947	2657.6680	324.546417
2656.6445	2315.36499	2656.6445	400.126282
2655.6191	2293.0271	2655.6191	365.908569
2654.5938	2170.697998	2654.5938	404.871735
2653.5684	2172.776855	2653.5684	382.857452
2652.5430	2123.653564	2652.5430	392.546753

2651.5176	2037.979614	2651.5176	299.846283
2650.4922	2049.828857	2650.4922	341.231934
2649.4668	1981.254395	2649.4668	375.292938
2648.4414	1863.971069	2648.4414	331.37265
2647.4141	1897.768555	2647.4141	321.57312
2646.3887	1726.951294	2646.3887	289.855011
2645.3613	1714.488403	2645.3613	340.949402
2644.3340	1743.423706	2644.3340	336.02301
2643.3086	1672.533081	2643.3086	292.145508
2642.2813	1633.309692	2642.2813	292.097107
2641.2539	1569.761841	2641.2539	265.277588
2640.2266	1513.535034	2640.2266	216.56691
2639.1992	1474.3573	2639.1992	277.35434
2638.1719	1478.978149	2638.1719	257.848145
2637.1426	1456.843872	2637.1426	277.262451
2636.1152	1395.809448	2636.1152	269.921326
2635.0859	1432.047852	2635.0859	260.151306
2634.0586	1446.396118	2634.0586	250.384537
2633.0293	1273.589844	2633.0293	235.759949
2632.0000	1261.228149	2632.0000	230.860657
2630.9727	1353.348145	2630.9727	208.955002
2629.9434	1319.113525	2629.9434	228.354828
2628.9141	1250.88562	2628.9141	206.456848
2627.8848	1204.536743	2627.8848	230.707642
2626.8555	1201.908936	2626.8555	216.1008
2625.8242	1138.5896	2625.8242	259.763519
2624.7949	1092.282349	2624.7949	199.038101
2623.7656	1109.089478	2623.7656	186.870651
2622.7344	1074.934814	2622.7344	208.678085
2621.7031	1016.530457	2621.7031	172.252182
2620.6738	1026.064697	2620.6738	145.541092
2619.6426	1018.618713	2619.6426	135.815826
2618.6113	1023.299622	2618.6113	162.466995
2617.5801	1001.309631	2617.5801	169.713501
2616.5488	955.086182	2616.5488	118.779755
2615.5176	911.301636	2615.5176	186.62294
2614.4863	959.616028	2614.4863	121.163635
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2612.4219	857.554077	2612.4219	203.487411
2611.3906	898.587036	2611.3906	121.103371
2610.3574	825.788025	2610.3574	174.35994
2609.3242	835.336121	2609.3242	116.22068
2608.2930	866.668823	2608.2930	147.672623
2607.2598	738.240601	2607.2598	164.591354
2606.2266	849.440918	2606.2266	133.103271
2605.1934	796.067566	2605.1934	191.153
2604.1602	776.581482	2604.1602	159.670959
2603.1270	715.981262	2603.1270	145.131332
2602.0918	735.210144	2602.0918	120.922714
2601.0586	812.465881	2601.0586	132.99292
2600.0254	739.801514	2600.0254	161.982681
2598.9902	759.016785	2598.9902	142.617813
2597.9551	792.726807	2597.9551	116.008797
2596.9219	766.014343	2596.9219	157.069183
2595.8867	659.581116	2595.8867	164.291275
2594.8516	729.525452	2594.8516	152.185776



2593.8164	707.667175	2593.8164	86.948868
2592.7813	683.401306	2592.7813	91.764137
2591.7461	724.333496	2591.7461	115.893356
2590.7109	707.315002	2590.7109	147.256699
2589.6738	683.061157	2589.6738	147.232269
2588.6387	634.682983	2588.6387	156.860809
2587.6016	663.531738	2587.6016	147.183411
2586.5664	673.071411	2586.5664	120.622116
2585.5293	687.431946	2585.5293	125.426178
2584.4922	588.440552	2584.4922	125.405365
2583.4570	670.325073	2583.4570	183.254333
2582.4199	540.028381	2582.4199	125.363739
2581.3828	614.662415	2581.3828	161.499542
2580.3457	631.430725	2580.3457	151.832581
2579.3066	624.096985	2579.3066	120.48204
2578.2695	643.267273	2578.2695	149.372925
2577.2324	662.431213	2577.2324	156.574661
2576.1934	611.744019	2576.1934	156.54866
2575.1563	667.027405	2575.1563	89.097519
2574.1172	589.872131	2574.1172	101.120934
2573.0781	563.294556	2573.0781	110.733116
2572.0410	606.52417	2572.0410	168.478943
2571.0020	495.727112	2571.0020	156.418747
2569.9629	601.510681	2569.9629	137.14444
2568.9238	572.543091	2568.9238	141.932953
2567.8828	558.016541	2567.8828	149.125107
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2565.8047	589.08905	2565.8047	149.075592
2564.7637	564.950745	2564.7637	120.202286
2563.7246	569.664185	2563.7246	108.164093
2562.6836	615.231323	2562.6836	120.162361
2561.6426	595.906311	2561.6426	136.962341
2560.6035	581.3927	2560.6035	134.53714
2559.5625	578.894043	2559.5625	127.308655
2558.5215	573.994629	2558.5215	127.287506
2557.4805	530.676697	2557.4805	110.457596
2556.4395	547.394531	2556.4395	146.452042
2555.3965	544.903137	2555.3965	153.629089
2554.3555	554.412842	2554.3555	110.402557
2553.3145	542.322449	2553.3145	98.385933
2552.2715	539.83313	2552.2715	146.354752
2551.2305	530.14801	2551.2305	151.128159
2550.1875	549.24762	2550.1875	93.539986
2549.1445	575.535034	2549.1445	170.262451
2548.1016	556.258118	2548.1016	64.736931
2547.0586	587.330139	2547.0586	119.863289
2546.0156	546.485779	2546.0156	134.224579
2544.9727	579.945557	2544.9727	74.290543
2543.9297	539.115967	2543.9297	119.803551
2542.8867	529.443665	2542.8867	141.344696
2541.8418	550.913147	2541.8418	170.064499
2540.7988	512.503601	2540.7988	134.113083
2539.7539	565.096924	2539.7539	170.00798
2538.7109	526.697754	2538.7109	184.344208
2537.6660	466.768127	2537.6660	146.014648
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2531.3965	499.780945	2531.3965	109.999634
2530.3496	545.124939	2530.3496	138.672134
2529.3047	564.158325	2529.3047	102.791557
2528.2578	521.042664	2528.2578	143.406235
2527.2129	456.43396	2527.2129	126.654449
2526.1660	518.480103	2526.1660	152.915787
2525.1191	494.504761	2525.1191	150.50145
2524.0723	492.034027	2524.0723	121.814255
2523.0254	487.175995	2523.0254	162.391998
2521.9785	494.258148	2521.9785	133.712341
2520.9316	489.401306	2520.9316	93.105614
2519.8848	498.867615	2519.8848	155.150223
2518.8359	536.969116	2518.8359	124.099533
2517.7891	467.681976	2517.7891	155.098618
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2515.6934	448.443726	2515.6934	102.569572
2514.6445	527.072205	2514.6445	116.862167
2513.5957	546.060913	2513.5957	138.303635
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2510.4492	502.888062	2510.4492	88.184166
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2507.3027	459.758118	2507.3027	140.547821
2506.2520	502.553497	2506.2520	157.196823
2505.2031	490.563019	2505.2031	152.407928
2504.1523	454.766754	2504.1523	104.763016
2503.1016	504.683289	2503.1016	119.029076
2502.0527	542.682251	2502.0527	126.149826
2501.0020	473.578094	2501.0020	154.68631
2499.9512	456.843536	2499.9512	199.869049
2498.9004	485.315491	2498.9004	147.497849
2497.8496	523.292358	2497.8496	133.201691
2496.7969	478.019348	2496.7969	159.339783
2495.7461	489.828857	2495.7461	175.957932
2494.6953	501.634399	2494.6953	145.022263
2493.6426	551.468323	2493.6426	97.457756
2492.5918	477.701202	2492.5918	149.727249
2491.5391	472.869232	2491.5391	102.177773
2490.4863	465.663025	2490.4863	161.556564
2489.4336	543.974915	2489.4336	116.396378
2488.3809	524.884033	2488.3809	102.126762
2487.3281	496.300903	2487.3281	128.230865
2486.2754	515.21228	2486.2754	156.700516
2485.2227	486.640259	2485.2227	73.5895
2484.1699	526.908081	2484.1699	166.142181
2483.1152	569.535522	2483.1152	175.606781
2482.0625	491.142578	2482.0625	161.341522
2481.0078	476.827179	2481.0078	144.70874
2479.9551	514.697876	2479.9551	170.77533
2478.9004	507.497681	2478.9004	173.118378
2477.8457	531.124084	2477.8457	104.327942

2476.7910	493.104523	2476.7910	146.983078
2475.7363	471.689697	2475.7363	139.847702
2474.6816	528.488892	2474.6816	191.962326
2473.6270	578.160583	2473.6270	130.32309
2472.5723	466.715851	2472.5723	135.039612
2471.5156	502.168945	2471.5156	135.01712
2470.4609	556.556824	2470.4609	134.994629
2469.4043	483.058228	2469.4043	125.50042
2468.3496	520.858337	2468.3496	187.035507
2467.2930	534.974487	2467.2930	132.560043
2466.2363	534.885376	2466.2363	182.2397
2465.1797	515.865417	2465.1797	87.555138
2464.1230	546.536987	2464.1230	191.642838
2463.0664	536.983643	2463.0664	127.740601
2462.0098	560.545898	2462.0098	153.736221
2460.9531	524.980835	2460.9531	134.792374
2459.8945	479.970062	2459.8945	174.964462
2458.8379	557.901794	2458.8379	186.755264
2457.7793	522.354858	2457.7793	120.543434
2456.7227	541.173462	2456.7227	120.523354
2455.6641	588.339478	2455.6641	141.768555
2454.6055	581.154175	2454.6055	155.919418
2453.5469	512.558716	2453.5469	151.169388
2452.4883	484.133759	2452.4883	108.634895
2451.4297	561.973816	2451.4297	191.259995
2450.3711	564.241028	2450.3711	153.454666
2449.3125	573.588745	2449.3125	136.90596
2448.2520	554.612732	2448.2520	134.523087
2447.1934	559.239624	2447.1934	181.693878
2446.1328	528.475891	2446.1328	136.837509
2445.0742	556.694336	2445.0742	141.532455
2444.0137	587.26178	2444.0137	129.716461
2442.9531	511.705048	2442.9531	117.904388
2441.8926	549.342896	2441.8926	122.600128
2440.8320	591.682739	2440.8320	141.438095
2439.7715	539.732117	2439.7715	103.703979
2438.7109	565.563782	2438.7109	155.530045
2437.6504	610.23584	2437.6504	148.435745
2436.5879	574.798096	2436.5879	131.920883
2435.5273	560.570251	2435.5273	115.411522
2434.4648	558.121826	2434.4648	105.972504
2433.4043	614.538025	2433.4043	157.754974
2432.3418	630.914673	2432.3418	122.416275
2431.2793	560.196472	2431.2793	117.688332
2430.2168	536.569275	2430.2168	145.909195
2429.1543	564.715576	2429.1543	167.061691
2428.0918	557.56366	2428.0918	131.744995
2427.0293	557.470642	2427.0293	110.553253
2425.9668	519.748779	2425.9668	141.108276
2424.9023	498.49939	2424.9023	108.164963
2423.8398	550.138672	2423.8398	138.710175
2422.7754	545.345642	2422.7754	133.985794
2421.7129	510.00116	2421.7129	183.31839
2420.6484	521.665283	2420.6484	126.891556
2419.5840	533.3255	2419.5840	82.230812
2418.5195	498.000671	2418.5195	136.245468

2417.4551	474.430908	2417.4551	96.29538
2416.3906	507.2276	2416.3906	129.155182
2415.3262	568.187988	2415.3262	75.132294
2414.2617	554.00824	2414.2617	145.544525
2413.1953	509.320862	2413.1953	115.007935
2412.1309	490.462189	2412.1309	154.882797
2411.0645	556.077271	2411.0645	110.276924
2410.0000	487.952606	2410.0000	84.453339
2408.9336	480.834564	2408.9336	68.0205
2407.8672	485.444611	2407.8672	145.398865
2406.8008	513.50061	2406.8008	70.342552
2405.7344	482.938232	2405.7344	98.463135
2404.6680	499.265411	2404.6680	84.382889
2403.6016	426.531158	2403.6016	110.148163
2402.5352	489.726013	2402.5352	100.757027
2401.4688	496.672668	2401.4688	119.482574
2400.4004	491.904938	2400.4004	131.174652
2399.3340	449.666595	2399.3340	93.680542
2398.2656	456.616394	2398.2656	121.764374
2397.1973	461.222626	2397.1973	140.473892
2396.1289	411.987976	2396.1289	100.656151
2395.0625	468.089996	2395.0625	128.724747
2393.9941	442.271179	2393.9941	88.922249
2392.9238	414.121307	2392.9238	44.453701
2391.8555	437.444946	2391.8555	138.017395
2390.7871	423.338593	2390.7871	81.861053
2389.7188	425.606384	2389.7188	126.278824
2388.6484	425.535309	2388.6484	77.157501
2387.5801	418.451111	2387.5801	77.144623
2386.5098	437.079834	2386.5098	128.552887
2385.4395	451.028442	2385.4395	133.205292
2384.3691	432.260773	2384.3691	98.13488
2383.3008	427.516266	2383.3008	116.807724
2382.2305	420.437561	2382.2305	128.467041
2381.1582	375.995239	2381.1582	100.421089
2380.0879	361.922516	2380.0879	149.43898
2379.0176	389.877197	2379.0176	128.402664
2377.9473	406.15152	2377.9473	72.360329
2376.8750	366.408813	2376.8750	81.683495
2375.8047	371.014465	2375.8047	102.67067
2374.7324	368.619446	2374.7324	69.991035
2373.6602	398.882233	2373.6602	79.309921
2372.5879	326.515686	2372.5879	130.606277
2371.5156	405.744568	2371.5156	121.256996
2370.4434	405.676758	2370.4434	116.573784
2369.3711	445.237427	2369.3711	97.905617
2368.2988	417.194672	2368.2988	100.219955
2367.2266	365.858215	2367.2266	55.927372
2366.1543	389.096252	2366.1543	104.846298
2365.0801	391.360748	2365.0801	90.851608
2364.0078	368.003967	2364.0078	83.849007
2362.9336	384.243713	2362.9336	128.081238
2361.8594	407.463104	2361.8594	151.343445
2360.7852	316.604126	2360.7852	88.462914
2359.7109	339.827026	2359.7109	79.137802
2358.6367	349.078979	2358.6367	109.378082

2357.5625	365.308258	2357.5625	79.111343
2356.4883	355.941559	2356.4883	111.667938
2355.4141	337.273834	2355.4141	111.649269
2354.3379	367.450745	2354.3379	125.584427
2353.2637	346.462067	2353.2637	109.28669
2352.1875	346.404144	2352.1875	111.593285
2351.1133	350.995178	2351.1133	123.196983
2350.0371	369.529144	2350.0371	104.583725
2348.9609	399.675385	2348.9609	130.126877
2347.8848	362.435669	2347.8848	95.255531
2346.8086	360.052155	2346.8086	104.531273
2345.7324	371.604584	2345.7324	125.41655
2344.6563	378.508881	2344.6563	130.039856
2343.5781	334.332275	2343.5781	76.617813
2342.5020	366.775482	2342.5020	139.28183
2341.4258	350.467285	2341.4258	148.542435
2340.3477	352.729279	2340.3477	136.914658
2339.2695	375.872284	2339.2695	85.847374
2338.1914	380.449036	2338.1914	95.112259
2337.1152	366.468842	2337.1152	95.096344
2336.0371	378.002716	2336.0371	78.847191
2334.9590	442.861633	2334.9590	83.471298
2333.8789	482.197937	2333.8789	88.093857
2332.8008	584.103638	2332.8008	83.443375
2331.7227	790.261963	2331.7227	134.414063
2330.6445	773.910095	2330.6445	183.050583
2329.5645	644.044922	2329.5645	159.852875
2328.4844	539.702759	2328.4844	55.591698
2327.4063	440.027313	2327.4063	108.848862
2326.3262	402.904968	2326.3262	131.986099
2325.2461	458.401337	2325.2461	69.45475
2324.1660	393.511047	2324.1660	81.016983
2323.0859	333.27124	2323.0859	90.260956
2322.0059	418.833313	2322.0059	118.013809
2320.9258	296.141937	2320.9258	71.721878
2319.8438	360.86261	2319.8438	113.34787
2318.7637	328.422516	2318.7637	92.513382
2317.6816	335.304901	2317.6816	80.935661
2316.6016	335.248779	2316.6016	60.113571
2315.5195	309.764252	2315.5195	104.025307
2314.4375	325.891388	2314.4375	90.140175
2313.3555	362.811249	2313.3555	101.679588
2312.2734	330.40332	2312.2734	97.041534
2311.1914	348.829041	2311.1914	60.063278
2310.1094	311.814789	2310.1094	103.938271
2309.0273	332.546783	2309.0273	83.136696
2307.9434	362.50766	2307.9434	76.195877
2306.8613	355.52121	2306.8613	122.354706
2305.7773	320.838806	2305.7773	76.170364
2304.6953	339.247528	2304.6953	87.69664
2303.6113	362.264923	2303.6113	80.759697
2302.5273	320.677673	2302.5273	145.343109
2301.4434	302.170776	2301.4434	152.238708
2300.3594	359.776703	2300.3594	59.962784
2299.2754	343.575317	2299.2754	66.870369
2298.1914	327.379364	2298.1914	108.357964

2297.1074	322.714325	2297.1074	76.068382
2296.0215	315.746124	2296.0215	85.274506
2294.9375	324.910583	2294.9375	69.129906
2293.8516	320.24826	2293.8516	87.549881
2292.7676	297.159027	2292.7676	87.535217
2291.6816	345.475891	2291.6816	115.15863
2290.5957	347.720795	2290.5957	103.625404
2289.5098	354.569733	2289.5098	108.212845
2288.4238	340.698242	2288.4238	71.362473
2287.3379	324.529755	2287.3379	151.907547
2286.2520	326.776642	2286.2520	115.062195
2285.1641	329.022736	2285.1641	94.335197
2284.0781	319.765717	2284.0781	156.432159
2282.9902	310.51181	2282.9902	94.303581
2281.9043	342.655609	2281.9043	85.088974
2280.8164	340.298859	2280.8164	135.659683
2279.7285	356.334351	2279.7285	80.462593
2278.6426	280.422607	2278.6426	68.956383
2277.5547	321.742523	2277.5547	85.031952
2276.4648	314.795258	2276.4648	133.270996
2275.3770	323.932068	2275.3770	124.05909
2274.2891	328.471802	2274.2891	27.564066
2273.2012	319.230255	2273.2012	103.347923
2272.1113	326.06546	2272.1113	112.515541
2271.0234	303.052277	2271.0234	82.650627
2269.9336	346.615326	2269.9336	52.795715
2268.8438	286.885132	2268.8438	100.983566
2267.7559	298.310516	2267.7559	57.367405
2266.6660	263.845825	2266.6660	114.715576
2265.5762	311.97406	2265.5762	98.638855
2264.4863	305.041138	2264.4863	91.741692
2263.3945	298.110504	2263.3945	71.087891
2262.3047	295.767761	2262.3047	107.760345
2261.2148	304.887726	2261.2148	84.818382
2260.1230	258.99649	2260.1230	98.55619
2259.0332	346.034637	2259.0332	87.081566
2257.9414	300.151886	2257.9414	107.68808
2256.8496	329.882629	2256.8496	109.960876
2255.7598	309.213104	2255.7598	82.456825
2254.6680	283.970306	2254.6680	96.183495
2253.5762	318.268188	2253.5762	116.774651
2252.4824	315.925476	2252.4824	103.01918
2251.3906	304.427826	2251.3906	96.135101
2250.2988	279.202759	2250.2988	98.407524
2249.2070	322.631012	2249.2070	68.644897
2248.1133	265.382416	2248.1133	93.798958
2247.0195	368.270691	2247.0195	118.944572
2245.9277	343.051788	2245.9277	121.211632
2244.8340	308.694794	2244.8340	100.611641
2243.7402	274.349335	2243.7402	100.594757
2242.6465	278.875031	2242.6465	80.005135
2241.5527	313.110413	2241.5527	102.846481
2240.4590	246.790146	2240.4590	102.829224
2239.3652	319.859467	2239.3652	93.673126
2238.2695	280.972229	2238.2695	139.343948
2237.1758	280.925079	2237.1758	82.221977

2236.0801	319.698456	2236.0801	86.775299
2234.9863	294.529877	2234.9863	132.424286
2233.8906	299.046021	2233.8906	82.180588
2232.7949	283.018951	2232.7949	89.014023
2231.6992	273.843353	2231.6992	91.281113
2230.6035	294.332184	2230.6035	95.829079
2229.5078	330.782959	2229.5078	75.281639
2228.4121	285.109863	2228.4121	77.549881
2227.3164	314.708435	2227.3164	82.097855
2226.2188	316.93573	2226.2188	116.285774
2225.1230	278.127106	2225.1230	125.38517
2224.0254	225.655426	2224.0254	104.849991
2222.9297	319.055084	2222.9297	79.763771
2221.8320	284.822784	2221.8320	93.421875
2220.7344	296.165985	2220.7344	100.240791
2219.6367	300.671875	2219.6367	59.223248
2218.5391	293.789093	2218.5391	107.039436
2217.4414	296.016815	2217.4414	77.419777
2216.3438	307.350433	2216.3438	88.790131
2215.2461	332.337982	2215.2461	93.327797
2214.1465	314.074951	2214.1465	109.243462
2213.0488	343.604004	2213.0488	120.60273
2211.9492	313.969452	2211.9492	111.481911
2210.8496	275.245819	2210.8496	138.760284
2209.7500	245.63269	2209.7500	72.78006
2208.6523	297.893311	2208.6523	102.329765
2207.5527	309.211334	2207.5527	122.775093
2206.4531	313.705841	2206.4531	63.650463
2205.3516	265.92334	2205.3516	120.460999
2204.2520	254.516327	2204.2520	113.62336
2203.1523	299.915283	2203.1523	115.87635
2202.0508	318.038513	2202.0508	104.498367
2200.9512	304.357147	2200.9512	90.852882
2199.8496	279.325653	2199.8496	99.921371
2198.7480	281.549286	2198.7480	122.610176
2197.6484	258.800201	2197.6484	54.484253
2196.5469	360.897522	2196.5469	104.410606
2195.4453	315.448608	2195.4453	95.315399
2194.3418	256.400726	2194.3418	99.837448
2193.2402	283.581451	2193.2402	77.134155
2192.1387	294.875153	2192.1387	90.730812
2191.0371	274.414581	2191.0371	90.715569
2189.9336	276.635986	2189.9336	40.815144
2188.8301	281.123718	2188.8301	104.287834
2187.7285	233.474823	2187.7285	115.604034
2186.6250	319.557434	2186.6250	111.051872
2185.5215	310.439789	2185.5215	79.309433
2184.4180	303.59079	2184.4180	111.014542
2183.3145	294.478851	2183.3145	97.404549
2182.2109	283.105133	2182.2109	131.360794
2181.1074	260.412933	2181.1074	81.520576
2180.0020	271.689575	2180.0020	83.77095
2178.8984	280.698669	2178.8984	115.448647
2177.7930	233.121796	2177.7930	83.742783
2176.6895	298.707794	2176.6895	74.676949
2175.5840	285.082214	2175.5840	76.926949

2174.4785	334.802155	2174.4785	142.517136
2173.3730	271.415558	2173.3730	94.995445
2172.2676	278.154175	2172.2676	63.319649
2171.1621	239.669785	2171.1621	49.742786
2170.0566	302.927826	2170.0566	88.165558
2168.9512	298.356323	2168.9512	74.589081
2167.8438	296.046234	2167.8438	85.876007
2166.7383	257.584686	2166.7383	153.647018
2165.6309	273.355316	2165.6309	60.996639
2164.5234	277.826843	2164.5234	56.468868
2163.4180	295.847107	2163.4180	108.401993
2162.3105	320.635284	2162.3105	83.545815
2161.2031	252.852875	2161.2031	115.138367
2160.0957	297.955048	2160.0957	110.604523
2158.9883	300.161774	2158.9883	126.383904
2157.8789	302.367737	2157.8789	72.207222
2156.7715	279.75592	2156.7715	78.963364
2155.6641	315.800293	2155.6641	92.484375
2154.5547	284.172424	2154.5547	74.426117
2153.4453	293.14444	2153.4453	83.433418
2152.3379	275.058502	2152.3379	83.41938
2151.2285	225.419846	2151.2285	99.184731
2150.1191	274.965912	2150.1191	103.675674
2149.0098	335.762512	2149.0098	67.603188
2147.9004	263.608063	2147.9004	76.604057
2146.7891	261.311005	2146.7891	103.623337
2145.6797	292.799255	2145.6797	63.064457
2144.5703	279.238434	2144.5703	92.328835
2143.4590	265.682159	2143.4590	99.067924
2142.3496	265.637451	2142.3496	76.539604
2141.2383	276.846649	2141.2383	96.783791
2140.1270	258.796783	2140.1270	85.515457
2139.0156	279.003479	2139.0156	76.500954
2137.9043	276.706848	2137.9043	101.234215
2136.7930	303.651489	2136.7930	85.472275
2135.6816	283.360352	2135.6816	119.191254
2134.5703	305.79776	2134.5703	92.189034
2133.4570	310.242523	2133.4570	94.421638
2132.3457	274.226196	2132.3457	101.14901
2131.2324	271.932648	2131.2324	105.626732
2130.1211	314.579834	2130.1211	94.373947
2129.0078	265.101196	2129.0078	121.317497
2127.8945	244.840363	2127.8945	85.357193
2126.7813	296.453979	2126.7813	71.867638
2125.6680	235.775955	2125.6680	148.202026
2124.5547	258.187317	2124.5547	53.882568
2123.4414	262.63327	2123.4414	94.27861
2122.3281	280.543854	2122.3281	71.819221
2121.2129	305.180267	2121.2129	51.61137
2120.0996	260.256989	2120.0996	94.230972
2118.9844	262.456329	2118.9844	87.485451
2117.8691	262.41214	2117.8691	62.799484
2116.7559	246.670685	2116.7559	118.850418
2115.6406	257.839539	2115.6406	80.714989
2114.5254	307.113617	2114.5254	121.052078
2113.4102	275.683258	2113.4102	96.377075



2112.2930	302.528198	2112.2930	112.047485
2111.1777	282.312073	2111.1777	78.420021
2110.0625	248.661591	2110.0625	91.847977
2108.9453	253.099319	2108.9453	109.75103
2107.8301	255.296097	2107.8301	105.253654
2106.7129	306.751495	2106.7129	78.367172
2105.5957	252.971359	2105.5957	80.592644
2104.4785	266.358551	2104.4785	102.962135
2103.3613	279.741241	2103.3613	96.230988
2102.2441	214.805069	2102.2441	73.839241
2101.1270	263.986725	2101.1270	96.198547
2100.0098	268.415802	2100.0098	96.182327
2098.8926	310.862549	2098.8926	147.603806
2097.7734	266.089264	2097.7734	62.609238
2096.6563	283.929749	2096.6563	93.898026
2095.5371	236.940765	2095.5371	80.470451
2094.4180	263.719788	2094.4180	71.517227
2093.2988	277.08252	2093.2988	91.615997
2092.1816	285.972443	2092.1816	67.024796
2091.0625	227.845856	2091.0625	104.987801
2089.9414	252.374908	2089.9414	46.901531
2088.8223	259.031433	2088.8223	80.389069
2087.7031	247.824478	2087.7031	89.306122
2086.5820	265.6409	2086.5820	154.027069
2085.4629	287.9151	2085.4629	129.450195
2084.3418	247.699112	2084.3418	102.650078
2083.2227	298.973694	2083.2227	111.55735
2082.1016	274.384796	2082.1016	127.153931
2080.9805	254.264969	2080.9805	124.902084
2079.8594	231.92189	2079.8594	100.350815
2078.7383	272.016327	2078.7383	98.104248
2077.6172	245.219238	2077.6172	111.463287
2076.4941	265.237854	2076.4941	113.67337
2075.3730	256.279053	2075.3730	91.369057
2074.2520	254.007675	2074.2520	100.26619
2073.1289	238.370499	2073.1289	80.199417
2072.0059	305.151825	2072.0059	60.139412
2070.8848	238.290054	2070.8848	91.307404
2069.7617	269.422699	2069.7617	84.612091
2068.6387	278.282288	2068.6387	89.050331
2067.5156	211.458832	2067.5156	135.778839
2066.3926	269.286316	2066.3926	133.530411
2065.2676	300.3927	2065.2676	140.183273
2064.1445	291.442993	2064.1445	84.54071
2063.0215	264.701233	2063.0215	66.7314
2061.8965	273.552582	2061.8965	82.28817
2060.7715	266.83551	2060.7715	71.156136
2059.6484	269.013702	2059.6484	95.599915
2058.5234	286.751312	2058.5234	88.915138
2057.3984	257.810364	2057.3984	68.897598
2056.2734	295.54303	2056.2734	99.995758
2055.1484	277.719086	2055.1484	95.53537
2054.0234	244.351547	2054.0234	117.733017
2052.8965	293.172333	2052.8965	108.829124
2051.7715	273.137177	2051.7715	77.721962
2050.6445	286.412567	2050.6445	102.131615

2049.5195	319.662384	2049.5195	75.475838
2048.3926	246.364807	2048.3926	110.975136
2047.2656	308.458771	2047.2656	79.888603
2046.1387	264.031616	2046.1387	102.062645
2045.0117	283.952423	2045.0117	122.010811
2043.8848	279.468475	2043.8848	48.796082
2042.7578	350.385376	2042.7578	79.834648
2041.6309	221.725449	2041.6309	168.511337
2040.5020	257.158051	2040.5020	62.072636
2039.3750	294.795227	2039.3750	68.71167
2038.2461	274.800232	2038.2461	73.132324
2037.1191	281.401093	2037.1191	88.630264
2035.9902	272.492004	2035.9902	124.061401
2034.8613	245.865875	2034.8613	95.245338
2033.7324	292.331635	2033.7324	115.16095
2032.6035	274.568176	2032.6035	88.570374
2031.4746	305.516174	2031.4746	86.341522
2030.3438	270.04837	2030.3438	86.326935
2029.2148	281.06842	2029.2148	77.459801
2028.0859	196.935913	2028.0859	81.872231
2026.9551	263.274292	2026.9551	123.893791
2025.8242	230.049576	2025.8242	97.328667
2024.6953	241.068909	2024.6953	123.851913
2023.5645	274.197174	2023.5645	59.704224
2022.4336	265.307251	2022.4336	84.013962
2021.3027	285.157074	2021.3027	108.315483
2020.1719	265.21756	2020.1719	128.188492
2019.0391	276.221588	2019.0391	117.117958
2017.9082	262.918488	2017.9082	83.957169
2016.7773	271.710144	2016.7773	81.733948
2015.6445	247.369049	2015.6445	83.92878
2014.5117	227.452713	2014.5117	123.663612
2013.3809	262.740753	2013.3809	79.484596
2012.2480	222.960739	2012.2480	105.96154
2011.1152	291.344971	2011.1152	112.565094
2009.9824	229.505692	2009.9824	103.718918
2008.8496	306.691315	2008.8496	105.907791
2007.7168	260.312622	2007.7168	134.56839
2006.5820	260.268616	2006.5820	97.049309
2005.4492	280.072235	2005.4492	103.648773
2004.3145	227.106766	2004.3145	94.811562
2003.1816	257.932007	2003.1816	90.386436
2002.0469	282.134308	2002.0469	81.554451
2000.9121	240.214355	2000.9121	99.171066
1999.7773	231.360001	1999.7773	112.374863
1998.6426	224.7117	1998.6426	66.091675
1997.5078	277.538086	1997.5078	123.350258
1996.3730	202.612564	1996.3730	125.5317
1995.2383	279.646118	1995.2383	116.702713
1994.1016	270.792542	1994.1016	112.279839
1992.9668	279.551483	1992.9668	96.852486
1991.8301	279.504211	1991.8301	94.635277
1990.6934	235.447937	1990.6934	79.216133
1989.5586	239.808243	1989.5586	90.203102
1988.4219	241.967377	1988.4219	87.988136
1987.2852	268.31839	1987.2852	92.37191

1986.1484	235.288605	1986.1484	109.947945
1985.0098	281.419098	1985.0098	129.716614
1983.8730	246.200043	1983.8730	107.712517
1982.7363	228.575623	1982.7363	123.079185
1981.5977	221.944519	1981.5977	105.478584
1980.4609	215.315659	1980.4609	101.066536
1979.3223	257.017029	1979.3223	103.246155
1978.1836	267.955292	1978.1836	127.388573
1977.0449	287.673767	1977.0449	105.407181
1975.9063	248.104065	1975.9063	96.606888
1974.7676	230.500137	1974.7676	74.638138
1973.6289	316.060944	1973.6289	118.522858
1972.4902	302.840454	1972.4902	92.168839
1971.3496	274.265564	1971.3496	76.794357
1970.2109	225.956558	1970.2109	103.106392
1969.0703	236.885208	1969.0703	109.669075
1967.9316	234.652084	1967.9316	94.299431
1966.7910	260.924011	1966.7910	65.77916
1965.6504	236.764877	1965.6504	74.537086
1964.5098	230.149078	1964.5098	78.908257
1963.3691	236.684677	1963.3691	89.852516
1962.2285	271.703033	1962.2285	83.26384
1961.0879	284.801727	1961.0879	89.822083
1959.9453	273.801422	1959.9453	89.806862
1958.8047	267.184906	1958.8047	81.031494
1957.6621	251.811966	1957.6621	72.259087
1956.5215	275.851593	1956.5215	78.814743
1955.3789	227.648453	1955.3789	142.280289
1954.2363	251.684006	1954.2363	102.86216
1953.0938	245.076797	1953.0938	85.339241
1951.9512	247.223099	1951.9512	109.390747
1950.8086	229.681656	1950.8086	98.43499
1949.6641	225.268585	1949.6641	74.360504
1948.5215	229.603821	1948.5215	104.961746
1947.3789	273.291565	1947.3789	89.639626
1946.2344	233.897919	1946.2344	52.463085
1945.0898	233.858276	1945.0898	91.794838
1943.9473	277.523071	1943.9473	78.667953
1942.8027	238.148712	1942.8027	80.83947
1941.6582	222.816986	1941.6582	111.408493
1940.5137	273.013763	1940.5137	117.94194
1939.3691	216.190231	1939.3691	56.777233
1938.2227	237.987289	1938.2227	102.61837
1937.0781	237.946945	1937.0781	98.234978
1935.9336	226.993454	1935.9336	52.383102
1934.7871	272.78241	1934.7871	104.748444
1933.6406	220.370819	1933.6406	111.276352
1932.4961	294.505127	1932.4961	100.349892
1931.3496	255.194489	1931.3496	100.332878
1930.2031	259.512787	1930.2031	82.869629
1929.0566	272.551239	1929.0566	69.773117
1927.9102	224.544128	1927.9102	91.561684
1926.7617	248.482422	1926.7617	67.569778
1925.6152	215.750763	1925.6152	106.785736
1924.4688	270.187439	1924.4688	91.515106
1923.3203	243.998886	1923.3203	113.285202

1922.1738	272.273987	1922.1738	54.4548
1921.0254	278.761292	1921.0254	74.045967
1919.8770	248.22966	1919.8770	102.340294
1918.7285	224.239624	1918.7285	89.260437
1917.5801	287.326294	1917.5801	78.361717
1916.4316	274.219482	1916.4316	67.466698
1915.2832	245.885284	1915.2832	58.75135
1914.1328	274.126434	1914.1328	102.253517
1912.9844	261.028503	1912.9844	34.803802
1911.8340	252.284744	1911.8340	147.891052
1910.6855	252.241943	1910.6855	80.456482
1909.5352	273.94043	1909.5352	104.358261
1908.3848	243.461288	1908.3848	78.255417
1907.2344	247.766769	1907.2344	110.843025
1906.0840	241.205643	1906.0840	93.440025
1904.9336	256.373291	1904.9336	82.56089
1903.7832	241.123779	1903.7832	54.307156
1902.6309	275.833527	1902.6309	73.8452
1901.4805	271.443604	1901.4805	102.062798
1900.3281	264.884003	1900.3281	130.270813
1899.1777	282.205536	1899.1777	106.369774
1898.0254	262.623627	1898.0254	104.181274
1896.8730	260.408966	1896.8730	60.762093
1895.7207	318.946838	1895.7207	132.352081
1894.5684	260.320557	1894.5684	93.281532
1893.4160	221.234909	1893.4160	95.434669
1892.2637	275.412384	1892.2637	86.744057
1891.1094	299.216187	1891.1094	82.39286
1889.9570	234.129425	1889.9570	75.875275
1888.8027	225.419678	1888.8027	93.202362
1887.6504	303.398041	1887.6504	97.520798
1886.4961	231.843399	1886.4961	104.004517
1885.3418	227.471237	1885.3418	88.822105
1884.1875	251.258881	1884.1875	97.471115
1883.0332	244.719238	1883.0332	101.785873
1881.8789	270.661133	1881.8789	67.123962
1880.7246	246.801025	1880.7246	45.463348
1879.5684	290.050171	1879.5684	82.253036
1878.4141	216.418579	1878.4141	101.716736
1877.2578	238.020004	1877.2578	86.552727
1876.1035	216.345062	1876.1035	86.538025
1874.9473	270.385376	1874.9473	88.686401
1873.7910	240.061432	1873.7910	97.322197
1872.6348	272.455872	1872.6348	129.740891
1871.4785	248.627777	1871.4785	136.204788
1870.3223	224.807785	1870.3223	103.757439
1869.1660	257.188263	1869.1660	101.57856
1868.0078	235.535782	1868.0078	64.826363
1866.8516	233.335236	1866.8516	60.49432
1865.6934	220.334717	1865.6934	84.245628
1864.5371	250.534149	1864.5371	71.272644
1863.3789	239.694519	1863.3789	58.304073
1862.2207	267.721344	1862.2207	120.90641
1861.0625	213.708939	1861.0625	92.823074
1859.9043	250.363861	1859.9043	66.907585
1858.7461	211.478333	1858.7461	86.317688

1857.5879	217.915115	1857.5879	90.618164
1856.4277	241.607361	1856.4277	81.97393
1855.2695	278.232605	1855.2695	118.626305
1854.1094	245.838165	1854.1094	84.102531
1852.9512	297.542969	1852.9512	77.619904
1851.7910	241.443085	1851.7910	118.565804
1850.6309	183.206909	1850.6309	116.390266
1849.4707	265.066071	1849.4707	99.130409
1848.3105	230.546738	1848.3105	73.257843
1847.1504	193.884827	1847.1504	103.405243
1845.9902	239.083969	1845.9902	105.541565
1844.8281	249.81102	1844.8281	77.527557
1843.6680	288.525726	1843.6680	90.433434
1842.5059	251.87886	1842.5059	68.889946
1841.3457	228.159119	1841.3457	64.573334
1840.1836	256.097321	1840.1836	90.387291
1839.0215	253.902054	1839.0215	75.309929
1837.8594	247.404831	1837.8594	77.448463
1836.6973	236.607834	1836.6973	62.378429
1835.5352	225.814514	1835.5352	124.735634
1834.3711	245.128326	1834.3711	77.408943
1833.2090	249.386383	1833.2090	96.74472
1832.0469	225.699265	1832.0469	118.223427
1830.8828	249.301529	1830.8828	103.159248
1829.7188	247.110321	1829.7188	60.165989
1828.5547	195.506195	1828.5547	92.38205
1827.3926	236.28595	1827.3926	77.329948
1826.2285	234.098053	1826.2285	79.464478
1825.0625	261.973419	1825.0625	107.36615
1823.8984	253.340988	1823.8984	40.792194
1822.7344	225.392166	1822.7344	83.717094
1821.5703	268.278351	1821.5703	105.165108
1820.4043	216.731995	1820.4043	111.584793
1819.2402	229.568085	1819.2402	124.438774
1818.0742	231.674133	1818.0742	85.805237
1816.9082	205.897507	1816.9082	47.184845
1815.7422	250.894867	1815.7422	47.176811
1814.5762	244.420044	1814.5762	102.913704
1813.4102	252.95311	1813.4102	85.746819
1812.2441	250.766739	1812.2441	75.015686
1811.0762	233.580505	1811.0762	64.288216
1809.9102	231.398163	1809.9102	70.704994
1808.7441	261.349701	1808.7441	87.830635
1807.5762	218.468277	1807.5762	117.801521
1806.4082	203.440704	1806.4082	59.961472
1805.2402	233.381683	1805.2402	104.914703
1804.0723	248.327194	1804.0723	81.348564
1802.9043	244.004135	1802.9043	94.177032
1801.7363	252.522659	1801.7363	55.640587
1800.5684	271.736572	1800.5684	113.401871
1799.4004	265.2724	1799.4004	72.735977
1798.2305	228.865417	1798.2305	94.112877
1797.0625	201.025085	1797.0625	49.186989
1795.8926	230.925644	1795.8926	104.77182
1794.7227	243.713318	1794.7227	70.548592
1793.5547	196.6474	1793.5547	76.948982

1792.3848	194.476791	1792.3848	66.250336
1791.2148	222.221313	1791.2148	79.059509
1790.0430	237.138107	1790.0430	108.955345
1788.8730	260.593872	1788.8730	121.752869
1787.7031	247.73555	1787.7031	155.902542
1786.5313	241.28746	1786.5313	81.140915
1785.3613	239.11142	1785.3613	121.690636
1784.1895	239.070663	1784.1895	87.516937
1783.0176	247.566696	1783.0176	85.367828
1781.8477	198.446365	1781.8477	78.951782
1780.6758	273.083923	1780.6758	76.804855
1779.5039	238.9077	1779.5039	121.58696
1778.3301	196.212158	1778.3301	100.238823
1777.1582	240.958633	1777.1582	74.633202
1775.9863	247.313599	1775.9863	59.696384
1774.8125	277.114532	1774.8125	68.212807
1773.6406	255.75441	1773.6406	91.645332
1772.4668	247.187119	1772.4668	89.498779
1771.2930	249.275528	1771.2930	168.31424
1770.1191	291.836945	1770.1191	78.817276
1768.9453	200.204346	1768.9453	119.270676
1767.7715	225.723846	1767.7715	97.955635
1766.5977	221.427139	1766.5977	61.744106
1765.4238	278.865448	1765.4238	106.437195
1764.2480	251.148941	1764.2480	97.905518
1763.0742	225.569901	1763.0742	46.816395
1761.8984	229.786728	1761.8984	95.744469
1760.7246	270.166077	1760.7246	117.00106
1759.5488	197.804398	1759.5488	106.346451
1758.3730	238.175415	1758.3730	108.45488
1757.1973	229.629974	1757.1973	97.805359
1756.0215	274.233459	1756.0215	99.914513
1754.8457	259.308319	1754.8457	80.768166
1753.6680	216.761765	1753.6680	104.130653
1752.4922	210.350525	1752.4922	93.48912
1751.3145	254.926819	1751.3145	76.478043
1750.1387	235.767075	1750.1387	82.837082
1748.9609	225.108505	1748.9609	93.441269
1747.7832	225.070099	1747.7832	76.438896
1746.6055	252.629913	1746.6055	76.425858
1745.4277	220.748123	1745.4277	118.864372
1744.2500	248.29924	1744.2500	91.25528
1743.0723	237.647598	1743.0723	95.483406
1741.8926	254.578964	1741.8926	116.682022
1740.7148	277.86792	1740.7148	86.966301
1739.5352	243.888214	1739.5352	78.468384
1738.3574	229.003754	1738.3574	97.538635
1737.1777	245.925003	1737.1777	101.76207
1735.9980	269.199493	1735.9980	61.470753
1734.8184	264.914917	1734.8184	76.295494
1733.6387	264.869659	1733.6387	112.304741
1732.4590	256.350067	1732.4590	84.74382
1731.2793	249.951584	1731.2793	80.492882
1730.0977	241.437408	1730.0977	99.539986
1728.9180	243.513687	1728.9180	80.465393
1727.7363	254.057846	1727.7363	112.208885

1726.5547	239.196945	1726.5547	105.839355
1725.3750	234.923248	1725.3750	91.006302
1724.1934	249.695572	1724.1934	101.571075
1723.0117	205.22316	1723.0117	67.702484
1721.8301	239.033569	1721.8301	61.344898
1720.6465	232.647797	1720.6465	120.553856
1719.4648	274.900421	1719.4648	54.980083
1718.2832	260.05365	1718.2832	99.370094
1717.0996	240.984161	1717.0996	76.100266
1715.9180	238.829453	1715.9180	69.746658
1714.7344	240.901825	1714.7344	126.790436
1713.5508	240.860657	1713.5508	88.738136
1712.3672	245.044418	1712.3672	97.172783
1711.1836	251.338806	1711.1836	105.604546
1710.0000	306.200836	1710.0000	92.916115
1708.8164	282.923462	1708.8164	126.682144
1707.6309	249.098969	1707.6309	78.1073
1706.4473	240.6138	1706.4473	73.872658
1705.2617	263.785828	1705.2617	101.293762
1704.0781	301.719421	1704.0781	78.067261
1702.8926	213.066101	1702.8926	92.820877
1701.7070	280.524231	1701.7070	86.477394
1700.5215	253.061295	1700.5215	128.639496
1699.3359	240.367126	1699.3359	103.315697
1698.1504	219.244812	1698.1504	120.163017
1696.9648	250.823761	1696.9648	80.094986
1695.7773	273.962311	1695.7773	92.7257
1694.5918	235.988708	1694.5918	111.673225
1693.4043	246.481766	1693.4043	96.907364
1692.2168	240.120651	1692.2168	103.209755
1691.0313	246.397476	1691.0313	75.814606
1689.8438	246.355331	1689.8438	115.808067
1688.6563	233.681763	1688.6563	111.577774
1687.4688	279.949188	1687.4688	79.985481
1686.2793	286.214874	1686.2793	88.389885
1685.0918	302.999207	1685.0918	126.249664
1683.9043	273.494141	1683.9043	115.709061
1682.7148	260.826721	1682.7148	117.792709
1681.5254	258.679016	1681.5254	100.947914
1680.3379	248.121155	1680.3379	84.108871
1679.1484	254.385803	1679.1484	79.889755
1677.9590	308.994324	1677.9590	77.774086
1676.7695	250.095474	1676.7695	86.167351
1675.5801	287.875793	1675.5801	94.557739
1674.3906	287.826538	1674.3906	113.449875
1673.1992	285.676697	1673.1992	113.430458
1672.0098	224.721893	1672.0098	88.208595
1670.8184	291.878479	1670.8184	102.892418
1669.6270	251.938293	1669.6270	92.37738
1668.4375	289.679474	1668.4375	111.253708
1667.2461	304.321259	1667.2461	83.950691
1666.0547	300.072357	1666.0547	142.691742
1664.8633	283.236603	1664.8633	117.490738
1663.6719	278.992737	1663.6719	77.614517
1662.4785	260.069	1662.4785	123.742508
1661.2871	297.769958	1661.2871	94.363724

1660.0938	259.97998	1660.0938	60.801765
1658.9023	234.780411	1658.9023	121.582718
1657.7090	282.945801	1657.7090	98.507057
1656.5156	282.897339	1656.5156	129.923233
1655.3223	316.371735	1655.3223	123.615448
1654.1289	295.369385	1654.1289	142.447647
1652.9355	316.263397	1652.9355	81.683929
1651.7422	316.209259	1651.7422	115.175552
1650.5469	265.905273	1650.5469	117.249573
1649.3535	295.167114	1649.3535	138.16333
1648.1582	326.511932	1648.1582	129.767563
1646.9648	265.768677	1646.9648	85.799339
1645.7695	274.092407	1645.7695	127.630814
1644.5742	336.803955	1644.5742	150.620392
1643.3789	294.914429	1643.3789	75.297302
1642.1836	347.144745	1642.1836	96.196732
1640.9883	321.994751	1640.9883	137.997757
1639.7930	338.663727	1639.7930	135.883591
1638.5957	338.605713	1638.5957	175.573334
1637.4004	365.715118	1637.4004	125.388039
1636.2031	428.335724	1636.2031	146.260971
1635.0059	386.480652	1635.0059	146.235916
1633.8105	361.349701	1633.8105	171.275574
1632.6133	352.934296	1632.6133	160.804382
1631.4160	394.634033	1631.4160	154.512787
1630.2188	400.829346	1630.2188	183.713455
1629.0195	425.808197	1629.0195	204.554916
1627.8223	490.430267	1627.8223	189.911301
1626.6250	467.393829	1626.6250	212.831131
1625.4258	436.020386	1625.4258	254.519089
1624.2266	496.43573	1624.2266	168.955017
1623.0293	479.666565	1623.0293	202.294159
1621.8301	531.713074	1621.8301	221.025833
1620.6309	500.350037	1620.6309	227.24231
1619.4316	614.908142	1619.4316	225.118912
1618.2305	560.616699	1618.2305	254.257401
1617.0313	633.450806	1617.0313	208.371964
1615.8320	660.425903	1615.8320	250.003494
1614.6309	666.561646	1614.6309	281.205688
1613.4316	722.678833	1613.4316	245.752457
1612.2305	693.402832	1612.2305	287.35614
1611.0293	739.086487	1611.0293	297.716522
1609.8281	822.222778	1609.8281	278.931274
1608.6270	786.70105	1608.6270	266.396118
1607.4258	826.102478	1607.4258	291.32077
1606.2246	873.812439	1606.2246	324.558899
1605.0234	834.139709	1605.0234	386.907684
1603.8203	885.991394	1603.8203	424.277588
1602.6191	944.063599	1602.6191	386.774963
1601.4160	975.08783	1601.4160	434.527405
1600.2129	993.629028	1600.2129	500.971954
1599.0098	1005.928772	1599.0098	571.550415
1597.8066	1124.202637	1597.8066	548.594238
1596.6035	1159.329834	1596.6035	652.382751
1595.4004	1132.126099	1595.4004	658.502686
1594.1973	1163.085815	1594.1973	643.851074



1592.9922	1306.17041	1592.9922	695.655151
1591.7891	1436.748535	1591.7891	786.889771
1590.5840	1471.791748	1590.5840	788.830566
1589.3789	1604.37207	1589.3789	830.205444
1588.1758	1726.531006	1588.1758	894.392822
1586.9707	1842.423462	1586.9707	912.912537
1585.7656	2005.988403	1585.7656	943.872498
1584.5605	2179.867432	1584.5605	991.414551
1583.3535	2322.580811	1583.3535	937.327271
1582.1484	2581.354248	1582.1484	1034.615112
1580.9434	2634.80957	1580.9434	976.392883
1579.7363	2847.841797	1579.7363	940.989929
1578.5293	3106.391357	1578.5293	942.900635
1577.3242	3103.786133	1577.3242	882.6521
1576.1172	3393.276855	1576.1172	847.283386
1574.9102	3579.105713	1574.9102	816.069275
1573.7031	3617.838135	1573.7031	760.015198
1572.4941	3652.415771	1572.4941	751.602539
1571.2871	3902.279541	1571.2871	660.385803
1570.0801	3769.140869	1570.0801	647.853455
1568.8711	3874.036133	1568.8711	540.130066
1567.6641	3891.992676	1567.6641	537.96814
1566.4551	3705.136475	1566.4551	544.082031
1565.2461	3561.780518	1565.2461	471.594635
1564.0371	3505.331543	1564.0371	397.064117
1562.8281	3393.074219	1562.8281	456.958801
1561.6191	3183.690918	1561.6191	382.45636
1560.4102	2916.503906	1560.4102	316.247406
1559.1992	2779.605713	1559.1992	343.059143
1557.9902	2620.025635	1557.9902	324.403809
1556.7793	2481.159424	1556.7793	285.095734
1555.5684	2170.899658	1555.5684	276.784546
1554.3594	1906.180786	1554.3594	260.215363
1553.1484	1883.139893	1553.1484	223.003403
1551.9375	1589.658447	1551.9375	258.061432
1550.7266	1527.46106	1550.7266	196.092987
1549.5137	1469.41272	1549.5137	185.740372
1548.3027	1246.309937	1548.3027	189.835297
1547.0918	1202.77124	1547.0918	206.307236
1545.8789	1157.184692	1545.8789	202.146347
1544.6660	1068.304077	1544.6660	160.864334
1543.4551	981.516113	1543.4551	152.588638
1542.2422	900.942871	1542.2422	175.240601
1541.0293	799.784241	1541.0293	121.616676
1539.8164	818.195251	1539.8164	138.083328
1538.6035	780.963928	1538.6035	171.029037
1537.3887	727.263489	1537.3887	166.879166
1536.1758	650.922791	1536.1758	183.329514
1534.9609	663.16803	1534.9609	189.476578
1533.7480	603.337952	1533.7480	123.55043
1532.5332	611.469421	1532.5332	133.823273
1531.3184	568.136475	1531.3184	162.618774
1530.1035	526.876526	1530.1035	111.138023
1528.8887	547.363525	1528.8887	144.04303
1527.6738	588.417419	1527.6738	131.673828
1526.4590	514.26239	1526.4590	113.137726

1525.2441	520.343994	1525.2441	88.43792
1524.0273	493.522064	1524.0273	121.324173
1522.8125	501.661102	1522.8125	152.143127
1521.5957	421.40506	1521.5957	121.282425
1520.3789	493.267365	1520.3789	100.708755
1519.1621	458.248718	1519.1621	166.449097
1517.9453	476.661041	1517.9453	133.547272
1516.7285	414.952423	1516.7285	141.741165
1515.5117	453.90448	1515.5117	73.939186
1514.2949	408.649078	1514.2949	106.782669
1513.0762	379.834503	1513.0762	143.721161
1511.8594	390.033142	1511.8594	119.062752
1510.6406	443.329803	1510.6406	135.461884
1509.4219	410.419891	1509.4219	123.125969
1508.2031	379.573059	1508.2031	106.690804
1506.9844	414.381378	1506.9844	108.723831
1505.7656	391.748627	1505.7656	137.419678
1504.5469	336.312622	1504.5469	120.990517
1503.3281	360.858734	1503.3281	127.120689
1502.1074	366.946533	1502.1074	141.448669
1500.8887	393.528534	1500.8887	125.02729
1499.6680	329.933228	1499.6680	86.069542
1498.4492	350.365631	1498.4492	88.103645
1497.2285	354.402435	1497.2285	124.962715
1496.0078	356.389618	1496.0078	137.230484
1494.7871	368.615448	1494.7871	71.675224
1493.5664	305.079102	1493.5664	124.898163
1492.3438	366.441315	1492.3438	135.112442
1491.1230	323.395264	1491.1230	108.480698
1489.9023	349.943451	1489.9023	122.787178
1488.6797	315.099457	1488.6797	126.858231
1487.4570	331.411163	1487.4570	114.56189
1486.2344	314.990906	1486.2344	161.586243
1485.0137	316.981689	1485.0137	96.117027
1483.7910	329.195221	1483.7910	120.636757
1482.5664	298.473419	1482.5664	106.305603
1481.3438	310.685913	1481.3438	116.507217
1480.1211	335.155975	1480.1211	112.399872
1478.8965	320.795258	1478.8965	126.683479
1477.6738	308.482391	1477.6738	100.103561
1476.4492	326.812439	1476.4492	122.554665
1475.2246	339.00946	1475.2246	114.364639
1474.0020	279.736694	1474.0020	118.428673
1472.7773	334.80957	1472.7773	120.449783
1471.5508	306.175476	1471.5508	144.923065
1470.3262	293.877808	1470.3262	104.081718
1469.1016	340.757843	1469.1016	126.508904
1467.8770	273.375336	1467.8770	124.446983
1466.6504	344.71991	1466.6504	140.743622
1465.4238	303.872253	1465.4238	83.615852
1464.1992	346.640106	1464.1992	87.679558
1462.9727	305.806183	1462.9727	87.664436
1461.7461	311.86853	1461.7461	122.301376
1460.5195	317.928741	1460.5195	122.280289
1459.2930	277.12085	1459.2930	126.334511
1458.0645	303.557983	1458.0645	105.939705

1456.8379	344.244659	1456.8379	120.180084
1455.6094	348.258484	1455.6094	112.012962
1454.3828	276.929749	1454.3828	150.682358
1453.1543	331.851196	1453.1543	107.902534
1451.9258	270.72757	1451.9258	120.097191
1450.6973	303.243988	1450.6973	97.689339
1449.4688	299.121979	1449.4688	111.916389
1448.2402	299.070374	1448.2402	120.035049
1447.0117	331.565063	1447.0117	113.911919
1445.7832	315.237518	1445.7832	91.520569
1444.5527	302.982483	1444.5527	97.605095
1443.3223	276.500061	1443.3223	164.680176
1442.0938	300.845215	1442.0938	152.455338
1440.8633	323.149536	1440.8633	144.299484
1439.6328	294.645264	1439.6328	103.633858
1438.4023	304.752838	1438.4023	105.647652
1437.1719	264.073547	1437.1719	140.162125
1435.9414	298.554718	1435.9414	87.332329
1434.7090	284.288757	1434.7090	103.562332
1433.4785	318.754486	1433.4785	85.271904
1432.2461	308.549805	1432.2461	121.795975
1431.0156	304.437378	1431.0156	125.834114
1429.7832	294.238647	1429.7832	107.549301
1428.5508	259.696869	1428.5508	123.761787
1427.3184	328.622101	1427.3184	89.255386
1426.0859	285.973572	1426.0859	119.662697
1424.8535	318.369476	1424.8535	117.614204
1423.6191	336.561829	1423.6191	150.033585
1422.3867	295.96109	1422.3867	85.139496
1421.1523	275.642181	1421.1523	83.098015
1419.9199	334.361084	1419.9199	151.982315
1418.6855	285.677399	1418.6855	117.512688
1417.4512	338.297058	1417.4512	162.058472
1416.2168	301.781769	1416.2168	117.472099
1414.9824	342.230255	1414.9824	85.051308
1413.7480	323.949005	1413.7480	103.258751
1412.5137	287.455078	1412.5137	155.873535
1411.2773	309.66922	1411.2773	125.486877
1410.0430	348.064758	1410.0430	133.559723
1408.8066	287.306122	1408.8066	141.629791
1407.5703	329.738098	1407.5703	135.536514
1406.3340	297.319794	1406.3340	119.332428
1405.0977	364.002136	1405.0977	155.712021
1403.8613	347.76416	1403.8613	159.728882
1402.6250	303.230286	1402.6250	135.442856
1401.3887	311.262634	1401.3887	115.207596
1400.1504	353.646393	1400.1504	113.166847
1398.9141	333.380402	1398.9141	143.454605
1397.6758	373.725555	1397.6758	151.510361
1396.4395	339.324554	1396.4395	111.088394
1395.2012	369.557495	1395.2012	153.477432
1393.9629	335.169067	1393.9629	173.6418
1392.7246	377.5047	1392.7246	181.686752
1391.4863	391.568176	1391.4863	149.361053
1390.2461	395.536591	1390.2461	145.299149
1389.0078	383.36203	1389.0078	177.557144

1387.7676	389.347778	1387.7676	169.457062
1386.5293	354.991516	1386.5293	163.37677
1385.2891	395.263092	1385.2891	201.664841
1384.0488	415.357727	1384.0488	161.30397
1382.8086	455.604919	1382.8086	199.579147
1381.5684	441.416931	1381.5684	147.138977
1380.3281	473.584625	1380.3281	193.464371
1379.0879	531.934998	1379.0879	185.371277
1377.8457	481.479065	1377.8457	189.368332
1376.6055	505.566284	1376.6055	221.562912
1375.3633	533.672852	1375.3633	209.441422
1374.1230	529.553528	1374.1230	237.59436
1372.8809	529.461914	1372.8809	245.605911
1371.6387	585.729126	1371.6387	229.460892
1370.3965	549.403381	1370.3965	332.057007
1369.1543	666.01123	1369.1543	263.587524
1367.9102	637.731201	1367.9102	267.56546
1366.6680	685.894958	1366.6680	273.553406
1365.4258	709.90918	1365.4258	327.805084
1364.1816	701.743408	1364.1816	293.56601
1362.9375	761.933289	1362.9375	307.58786
1361.6953	828.132446	1361.6953	339.695099
1360.4512	846.076233	1360.4512	341.645996
1359.2070	870.041809	1359.2070	303.409515
1357.9609	887.972107	1357.9609	399.788361
1356.7168	958.120789	1356.7168	385.658691
1355.4727	955.946655	1355.4727	353.459259
1354.2266	981.884399	1354.2266	385.525177
1352.9824	1041.942261	1352.9824	291.10141
1351.7363	1061.834351	1351.7363	395.427917
1350.4902	1099.781616	1350.4902	345.186951
1349.2441	1163.800903	1349.2441	329.074738
1347.9980	1087.363647	1347.9980	353.092255
1346.7520	1139.327637	1346.7520	326.954926
1345.5059	1143.141357	1345.5059	306.843201
1344.2598	1160.989868	1344.2598	282.728119
1343.0117	1180.836914	1343.0117	332.799561
1341.7656	1120.498413	1341.7656	250.55867
1340.5176	1108.279541	1340.5176	242.498779
1339.2695	1019.921509	1339.2695	200.377502
1338.0215	1115.909424	1338.0215	280.479919
1336.7734	993.528137	1336.7734	230.354309
1335.5254	981.3396	1335.5254	238.325333
1334.2773	989.179138	1334.2773	246.293594
1333.0293	989.007813	1333.0293	182.185638
1331.7793	940.795776	1331.7793	242.20488
1330.5313	858.577576	1330.5313	208.140015
1329.2813	816.407837	1329.2813	206.102951
1328.0313	734.239624	1328.0313	228.074417
1326.7813	744.113892	1326.7813	178.027252
1325.5313	797.983826	1325.5313	205.995834
1324.2813	685.867249	1324.2813	167.967484
1323.0313	655.759338	1323.0313	121.955246
1321.7793	641.653259	1321.7793	171.907104
1320.5293	629.550598	1320.5293	167.880157
1319.2773	543.5177	1319.2773	161.856384

1318.0273	539.427734	1318.0273	163.826202
1316.7754	531.344116	1316.7754	167.792877
1315.5234	517.271667	1315.5234	133.811584
1314.2715	487.22937	1314.2715	149.763123
1313.0195	453.204468	1313.0195	123.782715
1311.7676	493.048859	1311.7676	133.742004
1310.5137	461.030518	1310.5137	157.668442
1309.2617	442.991486	1309.2617	147.663818
1308.0078	434.934204	1308.0078	119.706665
1306.7559	384.989655	1306.7559	133.649261
1305.5020	410.850342	1305.5020	161.547943
1304.2480	380.867981	1304.2480	183.454742
1302.9941	384.789368	1302.9941	177.441727
1301.7402	364.788818	1301.7402	137.54332
1300.4863	370.704651	1300.4863	145.491608
1299.2305	304.881561	1299.2305	131.517548
1297.9766	310.805725	1297.9766	153.410522
1296.7207	346.607788	1296.7207	123.503922
1295.4648	362.480865	1295.4648	141.407379
1294.2109	314.626587	1294.2109	149.348068
1292.9551	334.481628	1292.9551	127.42157
1291.6992	352.339142	1291.6992	115.455765
1290.4434	328.394745	1290.4434	129.36763
1289.1855	306.448578	1289.1855	141.284729
1287.9297	322.312042	1287.9297	93.510284
1286.6738	282.471405	1286.6738	119.354111
1285.4160	254.577911	1285.4160	111.377838
1284.1582	286.350433	1284.1582	85.507423
1282.9023	304.19455	1282.9023	127.244774
1281.6445	260.408936	1281.6445	145.113373
1280.3867	276.263794	1280.3867	115.275543
1279.1270	282.177338	1279.1270	135.127182
1277.8691	309.943817	1277.8691	107.288246
1276.6113	272.147003	1276.6113	107.269623
1275.3516	307.850098	1275.3516	113.209389
1274.0938	305.810852	1274.0938	117.161301
1272.8340	303.772308	1272.8340	111.184639
1271.5742	285.853699	1271.5742	111.165329
1270.3145	258.017548	1270.3145	97.252769
1269.0547	263.925964	1269.0547	127.001968
1267.7949	220.230789	1267.7949	69.442139
1266.5352	247.964569	1266.5352	73.397514
1265.2754	303.455902	1265.2754	117.018951
1264.0137	267.70871	1264.0137	85.27018
1262.7539	231.973923	1262.7539	114.995613
1261.4922	218.057251	1261.4922	93.169914
1260.2305	283.425171	1260.2305	126.847633
1258.9688	243.742935	1258.9688	97.100845
1257.7070	265.494965	1257.7070	130.766174
1256.4453	289.220367	1256.4453	126.781532
1255.1836	223.809753	1255.1836	128.740112
1253.9199	205.948395	1253.9199	122.776932
1252.6582	245.511185	1252.6582	120.775665
1251.3945	225.672684	1251.3945	100.958832
1250.1309	215.737259	1250.1309	87.086601
1248.8691	219.657562	1248.8691	136.543884

1247.6055	233.469254	1247.6055	81.120674
1246.3418	267.058228	1246.3418	106.823288
1245.0762	231.410233	1245.0762	98.893265
1243.8125	239.28009	1243.8125	85.033424
1242.5488	270.873352	1242.5488	88.972992
1241.2832	290.594604	1241.2832	92.911194
1240.0195	201.602005	1240.0195	118.589417
1238.7539	266.779785	1238.7539	77.069717
1237.4883	258.8302	1237.4883	94.838547
1236.2227	254.834274	1236.2227	122.478493
1234.9570	235.038803	1234.9570	98.755798
1233.6914	256.720428	1233.6914	112.562035
1232.4258	238.90593	1232.4258	138.210037
1231.1582	223.071701	1231.1582	114.496979
1229.8926	228.954132	1229.8926	116.450806
1228.6250	221.020706	1228.6250	100.643356
1227.3574	230.847549	1227.3574	90.760574
1226.0918	248.561813	1226.0918	74.963089
1224.8242	242.601471	1224.8242	102.563217
1223.5547	211.006836	1223.5547	78.881058
1222.2871	230.686966	1222.2871	139.989532
1221.0195	210.933426	1221.0195	116.309082
1219.7520	222.722717	1219.7520	112.346855
1218.4824	281.803589	1218.4824	132.033859
1217.2129	218.70459	1217.2129	102.456207
1215.9453	230.486343	1215.9453	110.318253
1214.6758	220.598114	1214.6758	90.602798
1213.4063	222.529007	1213.4063	126.034126
1212.1367	214.614517	1212.1367	80.726563
1210.8652	218.514359	1210.8652	98.429893
1209.5957	246.031906	1209.5957	70.857185
1208.3262	291.251068	1208.3262	98.39563
1207.0547	242.011124	1207.0547	100.346077
1205.7852	202.624435	1205.7852	90.49247
1204.5137	224.224899	1204.5137	123.913765
1203.2422	214.353149	1203.2422	70.79554
1201.9707	247.741241	1201.9707	78.64801
1200.6992	202.483383	1200.6992	106.156334
1199.4277	229.965347	1199.4277	78.620628
1198.1543	192.587006	1198.1543	112.014893
1196.8828	198.447968	1196.8828	102.171227
1195.6094	233.774216	1195.6094	78.579567
1194.3359	210.163727	1194.3359	135.526154
1193.0645	202.271912	1193.0645	117.8283
1191.7910	212.054001	1191.7910	72.648132
1190.5176	204.164581	1190.5176	102.082291
1189.2441	198.240677	1189.2441	109.915627
1187.9688	215.868088	1187.9688	107.934044
1186.6953	207.982101	1186.6953	86.332191
1185.4219	180.481323	1185.4219	80.431892
1184.1465	211.832474	1184.1465	78.456467
1182.8711	237.289474	1182.8711	103.936714
1181.5957	178.426285	1181.5957	92.154228
1180.3203	225.444473	1180.3203	99.979721
1179.0449	235.205414	1179.0449	109.762527
1177.7695	215.567398	1177.7695	88.186661

1176.4941	235.123444	1176.4941	97.968102
1175.2188	221.369324	1175.2188	111.664177
1173.9414	215.454712	1173.9414	92.057922
1172.6641	211.500488	1172.6641	86.166862
1171.3887	238.875565	1171.3887	60.697891
1170.1113	199.680832	1170.1113	66.56028
1168.8340	203.560654	1168.8340	99.823013
1167.5566	191.783325	1167.5566	101.762581
1166.2793	205.44632	1166.2793	105.658104
1165.0000	187.803879	1165.0000	80.207909
1163.7227	205.37468	1163.7227	88.017723
1162.4434	242.495438	1162.4434	72.357513
1161.1660	199.437271	1161.1660	131.002914
1159.8867	215.041916	1159.8867	82.106911
1158.6074	211.095245	1158.6074	117.275131
1157.3281	201.287201	1157.3281	119.208923
1156.0488	191.482574	1156.0488	109.418617
1154.7695	226.613327	1154.7695	109.399536
1153.4902	205.088348	1153.4902	85.941788
1152.2090	238.251572	1152.2090	91.785439
1150.9297	187.443939	1150.9297	54.67115
1149.6484	251.833862	1149.6484	105.418823
1148.3672	204.945282	1148.3672	81.978119
1147.0859	230.279282	1147.0859	99.527489
1145.8047	238.043823	1145.8047	109.266022
1144.5234	202.887207	1144.5234	99.49276
1143.2422	239.91127	1143.2422	113.128891
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1140.6777	198.881378	1140.6777	124.788315
1139.3945	192.998245	1139.3945	91.625427
1138.1133	239.743851	1138.1133	91.609436
1136.8301	194.879684	1136.8301	99.388641
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1134.2637	202.604126	1134.2637	75.976547
1132.9805	233.733185	1132.9805	109.075493
1131.6953	212.270584	1131.6953	85.68721
1130.4121	183.027084	1130.4121	110.984512
1129.1289	214.143234	1129.1289	118.752159
1127.8438	233.570023	1127.8438	85.642342
1126.5586	208.23024	1126.5586	68.112694
1125.2734	206.248154	1125.2734	99.232597
1123.9883	188.703552	1123.9883	87.542885
1122.7031	229.51683	1122.7031	83.637489
1121.4180	227.532028	1121.4180	120.572525
1120.1328	237.214188	1120.1328	85.552658
1118.8457	223.564484	1118.8457	58.321171
1117.5605	190.482544	1117.5605	62.198383
1116.2734	217.656311	1116.2734	83.564476
1114.9863	223.447357	1114.9863	124.353317
1113.7012	252.548553	1113.7012	95.191376
1112.4141	221.426971	1112.4141	108.771141
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1108.5508	252.372116	1108.5508	93.183556
1107.2617	232.918182	1107.2617	100.931213
1105.9746	197.945862	1105.9746	81.507118

1104.6855	199.851578	1104.6855	81.492874
1103.3965	207.576523	1103.3965	106.698212
1102.1074	232.755417	1102.1074	102.800308
1100.8184	230.775452	1100.8184	38.785789
1099.5293	219.101425	1099.5293	85.313828
1098.2402	201.615616	1098.2402	112.439484
1096.9512	220.963104	1096.9512	102.728462
1095.6602	257.745239	1095.6602	106.58638
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1091.7891	255.673172	1091.7891	56.17062
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1089.2070	182.006638	1089.2070	112.301964
1087.9160	226.500565	1087.9160	100.666916
1086.6230	218.718704	1086.6230	98.713753
1085.3320	251.579285	1085.3320	112.243065
1084.0391	237.991089	1084.0391	90.939682
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1081.4551	210.828903	1081.4551	110.249977
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1078.8691	247.49231	1078.8691	75.407814
1077.5762	220.384277	1077.5762	59.929058
1076.2832	226.144302	1076.2832	79.247147
1074.9883	231.902298	1074.9883	59.908096
1073.6953	197.082474	1073.6953	77.287247
1072.4004	233.753006	1072.4004	71.478195
1071.1074	220.191574	1071.1074	131.342346
1069.8125	189.254379	1069.8125	81.109024
1068.5176	208.529556	1068.5176	100.403122
1067.2227	177.605209	1067.2227	121.620956
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1064.6309	198.771027	1064.6309	109.999504
1063.3359	208.383636	1063.3359	75.249649
1062.0410	194.843185	1062.0410	106.102722
1060.7441	196.737885	1060.7441	84.867325
1059.4473	210.202698	1059.4473	84.85247
1058.1504	215.950287	1058.1504	107.975143
1056.8535	204.345749	1056.8535	75.183815
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1052.9629	215.799118	1052.9629	111.753113
1051.6641	213.834885	1051.6641	90.542702
1050.3672	231.13237	1050.3672	109.78788
1049.0684	186.799286	1049.0684	90.510994
1047.7695	188.692001	1047.7695	84.718864
1046.4707	236.786255	1046.4707	44.277103
1045.1719	209.798218	1045.1719	82.764435
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1042.5742	205.876587	1042.5742	78.887291
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1038.6758	211.537628	1038.6758	78.84584
1037.3750	213.423294	1037.3750	78.832031
1036.0742	161.481232	1036.0742	55.749474
1034.7734	180.673523	1034.7734	88.414703
1033.4727	219.076309	1033.4727	90.320938



1032.1719	165.239136	1032.1719	105.676193
1030.8691	186.341721	1030.8691	80.684044
1029.5684	192.071213	1029.5684	72.987061
1028.2676	193.957916	1028.2676	69.133514
1026.9648	199.684052	1026.9648	94.081909
1025.6621	157.415604	1025.6621	97.904823
1024.3594	155.468643	1024.3594	71.016541
1023.0566	203.41713	1023.0566	90.194389
1021.7539	222.568405	1021.7539	86.341194
1020.4512	184.162262	1020.4512	86.326057
1019.1465	166.867798	1019.1465	90.146965
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1016.5391	184.065414	1016.5391	93.950058
1015.2363	203.203278	1015.2363	92.016579
1013.9316	187.834229	1013.9316	63.250305
1012.6270	229.96077	1012.6270	103.482346
1011.3223	199.264389	1011.3223	88.136177
1010.0176	166.663101	1010.0176	114.940063
1008.7109	189.617859	1008.7109	88.105263
1007.4063	185.754608	1007.4063	57.449879
1006.1016	193.380661	1006.1016	88.074364
1004.7949	166.546204	1004.7949	88.058914
1003.4883	155.033066	1003.4883	86.129478
1002.1816	193.278931	1002.1816	93.768982
1000.8750	179.851807	1000.8750	65.05278
999.5684	189.385162	999.5684	84.171181
998.2617	166.400177	998.2617	84.156418
996.9551	168.283295	996.9551	143.423264
995.6465	145.310074	995.6465	108.982559
994.3379	219.838516	994.3379	68.819016
993.0313	200.68689	993.0313	59.250416
991.7227	194.918777	991.7227	85.993576
990.4141	210.169632	990.4141	85.978485
989.1055	198.670959	989.1055	93.604591
987.7969	236.835342	987.7969	120.327637
986.4883	187.143463	986.4883	101.210243
985.1777	242.480087	985.1777	91.646019
983.8691	181.350906	983.8691	83.994102
982.5586	167.95871	982.5586	72.527626
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977.3164	228.87381	977.3164	72.476707
976.0059	175.439117	976.0059	110.602921
974.6953	200.19426	974.6953	106.770279
973.3828	177.283783	973.3828	99.126419
972.0723	219.18338	972.0723	47.648563
970.7598	156.259842	970.7598	97.185997
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966.8223	194.269592	966.8223	87.611778
965.5098	209.46962	965.5098	85.692116
964.1973	188.489548	964.1973	83.773132
962.8828	218.914032	962.8828	78.047615
961.5703	224.585373	961.5703	83.743698
960.2559	253.08989	960.2559	39.961563

958.9414	159.818161	958.9414	98.935051
957.6270	159.790085	957.6270	104.624458
956.3125	171.173569	956.3125	108.409927
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953.6836	176.8172	953.6836	85.556709
952.3691	136.866684	952.3691	85.541672
951.0527	205.263931	951.0527	106.433151
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948.4219	207.091705	948.4219	83.596657
947.1055	231.749969	947.1055	87.381142
945.7891	163.336014	945.7891	53.179169
944.4727	170.903	944.4727	132.924545
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941.8398	199.316727	941.8398	106.302254
940.5215	182.200394	940.5215	108.181488
939.2051	174.578003	939.2051	100.572113
937.8867	210.595123	937.8867	100.554428
936.5684	223.836533	936.5684	72.082954
935.2500	191.555206	935.2500	83.449791
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932.6133	219.92662	932.6133	104.275551
931.2949	219.887939	931.2949	73.927841
929.9746	166.782196	929.9746	87.181602
928.6563	206.546158	928.6563	104.220535
927.3359	215.982758	927.3359	126.937233
926.0176	198.896484	926.0176	49.250557
924.6973	187.497986	924.6973	113.635139
923.3770	170.422714	923.3770	85.211357
922.0566	206.364532	922.0566	54.904327
920.7363	217.685745	920.7363	98.431816
919.4141	166.547607	919.4141	39.744316
918.0938	126.780975	918.0938	94.612671
916.7715	170.272827	916.7715	94.596016
915.4512	217.532547	915.4512	88.90461
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912.8066	225.019669	912.8066	79.418709
911.4844	187.168289	911.4844	122.888268
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907.5156	196.51741	907.5156	85.03157
906.1914	202.150589	906.1914	86.905861
904.8691	175.670044	904.8691	103.890892
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894.2715	211.261765	894.2715	77.336899
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884.9883	229.84079	884.9883	145.063446
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882.3340	182.677872	882.3340	77.214355
881.0059	188.29451	881.0059	73.43486
879.6777	207.087463	879.6777	58.361012
878.3496	199.521851	878.3496	80.938103
877.0215	191.958878	877.0215	58.340443
875.6934	199.451523	875.6934	124.18679
874.3633	212.585373	874.3633	120.402328
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871.7051	203.107315	871.7051	92.150536
870.3750	216.233536	870.3750	99.655457
869.0449	242.514862	869.0449	90.238091
867.7168	233.073959	867.7168	80.824036
866.3848	231.153564	866.3848	105.240646
865.0547	232.991776	865.0547	73.279671
863.7246	247.979767	863.7246	86.417191
862.3926	223.518097	862.3926	103.306679
861.0625	247.892319	861.0625	112.678322
859.7305	247.848587	859.7305	88.249123
858.3984	247.804886	858.3984	76.969696
857.0664	230.868362	857.0664	84.464035
855.7344	260.854004	855.7344	125.735382
854.4023	228.910614	854.4023	90.063187
853.0703	275.769867	853.0703	76.915405
851.7363	258.840332	851.7363	123.793198
850.4043	249.41803	850.4043	75.012947
849.0703	253.124023	849.0703	73.124718
847.7363	228.708755	847.7363	108.730392
846.4023	228.668396	846.4023	80.596237
845.0684	224.880035	845.0684	127.432022
843.7344	224.840363	843.7344	106.799171
842.4004	221.054001	842.4004	93.666946
841.0664	265.967194	841.0664	88.031395
839.7305	258.429535	839.7305	102.997276
838.3945	250.894531	838.3945	102.979095
837.0605	245.234192	837.0605	99.216888
835.7246	250.805954	835.7246	99.199371
834.3887	331.22998	834.3887	121.63813
833.0527	258.201508	833.0527	91.680244
831.7148	312.406097	831.7148	117.85379
830.3789	278.684357	830.3789	91.647881
829.0430	274.895081	829.0430	123.422279
827.7051	250.54039	827.7051	82.266991
826.3672	267.320526	826.3672	136.46431
825.0293	246.713821	825.0293	134.571167
823.6914	242.932816	823.6914	110.254128
822.3535	263.442139	822.3535	95.287582
821.0156	285.812256	821.0156	87.798538
819.6777	257.745911	819.6777	87.783028
818.3379	304.385223	818.3379	89.634918
817.0000	300.597321	817.0000	128.827423
815.6602	252.00914	815.6602	97.070183
814.3203	257.563843	814.3203	115.717079
812.9805	320.964874	812.9805	123.160934
811.6406	264.935791	811.6406	104.481728

810.3008	274.216064	810.3008	83.943695
808.9609	296.548645	808.9609	70.87326
807.6191	262.930634	807.6191	119.344398
806.2793	255.426453	806.2793	128.645432
804.9375	255.381302	804.9375	74.563889
803.5957	264.654999	803.5957	126.736198
802.2559	314.921051	802.2559	111.806297
800.9141	283.192535	800.9141	128.55452
799.5703	271.96582	799.5703	96.864532
798.2285	275.642639	798.2285	102.434761
796.8867	258.834808	796.8867	55.863628
795.5430	294.163086	795.5430	89.366005
794.2012	245.713058	794.2012	100.518982
792.8574	299.642487	792.8574	94.917809
791.5137	288.424683	791.5137	126.534698
790.1699	277.210815	790.1699	113.488991
788.8262	310.64444	788.8262	113.468925
787.4824	295.710968	787.4824	74.392693
786.1367	264.047363	786.1367	96.693398
784.7930	262.141479	784.7930	143.155289
783.4473	252.800964	783.4473	74.353226
782.1016	243.463745	782.1016	87.349586
780.7578	260.144226	780.7578	85.47596
779.4121	295.397247	779.4121	92.89222
778.0664	256.337158	778.0664	122.596039
776.7188	261.863373	776.7188	79.859039
775.3730	269.244476	775.3730	83.558632
774.0273	278.479492	774.0273	77.974258
772.6797	272.861603	772.6797	109.515884
771.3320	280.236816	771.3320	129.911102
769.9844	239.365234	769.9844	85.355042
768.6367	291.268921	768.6367	96.471237
767.2891	265.248932	767.2891	85.324837
765.9414	291.165833	765.9414	87.164291
764.5938	270.717743	764.5938	81.586166
763.2441	220.614441	763.2441	85.279533
761.8965	263.207611	761.8965	100.093033
760.5469	279.84024	760.5469	116.754532
759.1973	240.879395	759.1973	109.322189
757.8496	263.067841	757.8496	103.745064
756.4980	251.907684	756.4980	127.806107
755.1484	227.787933	755.1484	103.708328
753.7988	259.224915	753.7988	127.760849
752.4492	248.071335	752.4492	129.589493
751.0977	266.536896	751.0977	107.355141
749.7461	223.925369	749.7461	129.54361
748.3965	251.640137	748.3965	103.616524
747.0449	262.695374	747.0449	70.298759
745.6934	258.949554	745.6934	96.181267
744.3418	258.903687	744.3418	112.808037
742.9883	253.310867	742.9883	142.371796
741.6367	253.265991	741.6367	85.038216
740.2832	240.282806	740.2832	136.776367
738.9316	247.632248	738.9316	94.248093
737.5781	273.455811	737.5781	94.231392
736.2246	251.239182	736.2246	116.382858

734.8711	247.500626	734.8711	125.597336
733.5176	219.756378	733.5176	121.881691
732.1641	288.032928	732.1641	140.323746
730.8086	319.364532	730.8086	92.301888
729.4551	208.565292	729.4551	131.045456
728.0996	276.807495	728.0996	112.56839
726.7441	278.603485	726.7441	145.759445
725.3906	252.727905	725.3906	97.770645
724.0352	243.46109	724.0352	95.908913
722.6777	232.35347	722.6777	82.983383
721.3223	248.906006	721.3223	140.124863
719.9668	291.260559	719.9668	114.292122
718.6094	239.60228	718.6094	123.487328
717.2539	248.773621	717.2539	127.150963
715.8965	276.366119	715.8965	123.443535
714.5391	265.264435	714.5391	117.895302
713.1816	204.4384	713.1816	138.134048
711.8242	241.231339	711.8242	114.170563
710.4668	213.571548	710.4668	92.056702
709.1094	217.215271	709.1094	128.856522
707.7500	219.017227	707.7500	80.981163
706.3906	239.220078	706.3906	125.130501
705.0332	246.536942	705.0332	125.108299
703.6738	242.814194	703.6738	123.246597
702.3145	239.092758	702.3145	125.063911
700.9551	246.405731	700.9551	119.525169
699.5957	229.815308	699.5957	137.889191
698.2344	213.230759	698.2344	130.511932
696.8750	264.65329	696.8750	137.840256
695.5137	246.230865	695.5137	154.353683
694.1543	231.489426	694.1543	132.279678
692.7930	211.242538	692.7930	78.986336
691.4316	225.897552	691.4316	93.664841
690.0703	216.676254	690.0703	89.975739
688.7070	229.489197	688.7070	124.842117
687.3457	227.612854	687.3457	128.491135
685.9844	244.089813	685.9844	110.1157
684.6211	238.541656	684.6211	102.756409
683.2578	238.499298	683.2578	110.076599
681.8965	212.776978	681.8965	121.062759
680.5332	231.078781	680.5332	111.871468
679.1699	218.202301	679.1699	141.189728
677.8047	252.996399	677.8047	86.165436
676.4414	208.9599	676.4414	130.141693
675.0781	230.914658	675.0781	126.453262
673.7129	199.72403	673.7129	106.275169
672.3477	247.320679	672.3477	91.60025
670.9844	234.454987	670.9844	113.564133
669.6191	216.099792	669.6191	128.194794
668.2539	195.920074	668.2539	144.651276
666.8867	192.223862	666.8867	98.857986
665.5215	232.458023	665.5215	86.027771
664.1563	206.79599	664.1563	129.933762
662.7891	195.780869	662.7891	84.167473
661.4219	195.746078	661.4219	135.375793
660.0566	234.121918	660.0566	117.060959

658.6895	188.361496	658.6895	109.725143
657.3223	217.582855	657.3223	102.39193
655.9531	254.106232	655.9531	122.482857
654.5859	182.77774	654.5859	122.461082
653.2188	219.294296	653.2188	133.404037
651.8496	233.87233	651.8496	104.146271
650.4824	210.082321	650.4824	126.049393
649.1133	208.218491	649.1133	102.282768
647.7441	217.312225	647.7441	120.526115
646.3750	228.228561	646.3750	124.156342
645.0059	208.107437	645.0059	80.322166
643.6348	248.224365	643.6348	89.433777
642.2656	233.58139	642.2656	100.367004
640.8945	224.417191	640.8945	96.700096
639.5254	207.959427	639.5254	83.913452
638.1543	211.570206	638.1543	94.841812
636.7832	165.943649	636.7832	103.942726
635.4121	224.257568	635.4121	87.515152
634.0410	213.280228	634.0410	103.905754
632.6680	187.726105	632.6680	102.064682
631.2969	216.848862	631.2969	96.579742
629.9238	233.207687	629.9238	102.028366
628.5527	187.625931	628.5527	105.653435
627.1797	207.626694	627.1797	107.455917
625.8066	198.484924	625.8066	83.764282
624.4336	225.759186	624.4336	96.493843
623.0605	200.234604	623.0605	120.140762
621.6855	163.799149	621.6855	94.639511
620.3125	196.524002	620.3125	87.344002
618.9375	214.682449	618.9375	105.521881
617.5645	205.549133	617.5645	90.950943
616.1895	210.968628	616.1895	123.671265
614.8145	214.56781	614.8145	107.283905
613.4395	234.528137	613.4395	90.902374
612.0645	209.038239	612.0645	121.787498
610.6895	212.635818	610.6895	96.322212
609.3125	205.329651	609.3125	103.573364
607.9375	181.675293	607.9375	143.523483
606.5605	187.092239	606.5605	87.188614
605.1836	163.449539	605.1836	108.966354
603.8066	190.657166	603.8066	63.552387
602.4297	205.146881	602.4297	121.635757
601.0527	166.992493	601.0527	98.017326
599.6758	185.110855	599.6758	101.629494
598.2969	165.1185	598.2969	108.869347
596.9199	174.159912	596.9199	99.779121
595.5410	199.52269	595.5410	65.298332
594.1621	210.368256	594.1621	79.794853
592.7832	212.143967	592.7832	85.220222
591.4043	163.158585	591.4043	121.462502
590.0254	201.193069	590.0254	85.189857
588.6465	166.724899	588.6465	57.991268
587.2656	208.368973	587.2656	90.595207
585.8867	192.027603	585.8867	99.636971
584.5059	204.672195	584.5059	83.317886
583.1250	211.879456	583.1250	114.088936

581.7441	197.356781	581.7441	95.962471
580.3633	175.598114	580.3633	92.324783
578.9824	179.186752	578.9824	88.688393
577.6016	170.106583	577.6016	90.482224
576.2188	197.21608	576.2188	115.7966
574.8379	186.32692	574.8379	94.067963
573.4551	242.362671	573.4551	97.668541
572.0723	180.835419	572.0723	83.184288
570.6895	189.843323	570.6895	94.017647
569.3066	215.117401	569.3066	97.616295
567.9238	160.857422	567.9238	106.635818
566.5391	180.706436	566.5391	121.073318
565.1563	164.413528	565.1563	79.496651
563.7715	213.157532	563.7715	113.804451
562.3887	175.191467	562.3887	70.437805
561.0039	171.54866	561.0039	93.900314
559.6191	187.767136	559.6191	115.549004
558.2344	207.590073	558.2344	108.307861
556.8496	227.40593	556.8496	81.2164
555.4629	137.141006	555.4629	120.900627
554.0781	218.303955	554.0781	90.208244
552.6914	178.58046	552.6914	110.034424
551.3047	142.478165	551.3047	137.067596
549.9199	169.500717	549.9199	82.947159
548.5332	149.638809	548.5332	109.975517
547.1465	182.058105	547.1465	73.904778
545.7578	214.46582	545.7578	99.122856
544.3711	167.57782	544.3711	70.274567
542.9824	203.579712	542.9824	88.277924
541.5957	192.735748	541.5957	124.287537
540.2070	192.70134	540.2070	91.848297
538.8184	163.856918	538.8184	84.629402
537.4297	163.827667	537.4297	93.615807
536.0410	181.798233	536.0410	100.799019
534.6523	190.764069	534.6523	98.981361
533.2637	154.74321	533.2637	106.161041
531.8730	169.107727	531.8730	93.54895
530.4824	167.278824	530.4824	115.116608
529.0938	167.248932	529.0938	106.104164
527.7031	169.01712	527.7031	97.09494
526.3125	190.559723	526.3125	93.482132
524.9219	168.956741	524.9219	102.452492
523.5293	181.50618	523.5293	79.071999
522.1387	195.847916	522.1387	95.228806
520.7461	170.662643	520.7461	100.601135
519.3555	159.855377	519.3555	70.048988
517.9629	167.01004	517.9629	95.177765
516.5703	168.775681	516.5703	66.432983
515.1777	202.853653	515.1777	73.601768
513.7852	192.048325	513.7852	111.280342
512.3926	202.781143	512.3926	78.95903
510.9980	161.478241	510.9980	100.475349
509.6055	154.273849	509.6055	91.487976
508.2109	200.87886	508.2109	93.265182
506.8164	200.842941	506.8164	91.455269
505.4219	204.392883	505.4219	105.78228

504.0273	161.333954	504.0273	127.274559
502.6328	387.132263	502.6328	98.57534
501.2383	318.968597	501.2383	105.725548
499.8418	164.830704	499.8418	84.206985
498.4473	198.836258	498.4473	116.435646
497.0508	182.681717	497.0508	96.713852
495.6543	188.021072	495.6543	116.393997
494.2578	191.568161	494.2578	71.614265
492.8613	213.014328	492.8613	93.081894
491.4648	164.653885	491.4648	84.116661
490.0684	198.622955	490.0684	110.942551
488.6699	237.947098	488.6699	91.242874
487.2734	166.354294	487.2734	84.071526
485.8750	185.997314	485.8750	116.248329
484.4766	214.573898	484.4766	110.863182
483.0781	200.233139	483.0781	135.872482
481.6797	193.047394	481.6797	110.823509
480.2813	198.374313	480.2813	103.655052
478.8828	166.175766	478.8828	108.997009
477.4824	164.359512	477.4824	83.96627
476.0840	207.198807	476.0840	78.592651
474.6836	196.446457	474.6836	87.507965
473.2832	169.62793	473.2832	76.778961
471.8828	217.798981	471.8828	76.765213
470.4824	189.201309	470.4824	124.94426
469.0820	214.15181	469.0820	69.599335
467.6797	198.054947	467.6797	103.488174
466.2793	231.914719	466.2793	92.765884
464.8770	174.796707	464.8770	80.263794
463.4746	197.948578	463.4746	103.432594
462.0723	197.913132	462.0723	105.197067
460.6699	188.964279	460.6699	98.047501
459.2676	203.189331	459.2676	105.159393
457.8652	196.024765	457.8652	80.191948
456.4629	147.883102	456.4629	121.157242
455.0586	197.735947	455.0586	83.726036
453.6543	169.203156	453.6543	101.521889
452.2520	226.157379	452.2520	101.503708
450.8477	204.75148	450.8477	80.120148
449.4434	217.175705	449.4434	83.666046
448.0371	217.13678	448.0371	97.889534
446.6328	208.200424	446.6328	69.400139
445.2285	209.942291	445.2285	49.816814
443.8223	183.221863	443.8223	117.404305
442.4160	225.873856	442.4160	99.597916
441.0117	208.051208	441.0117	96.023636
439.6055	206.236023	439.6055	104.895912
438.1992	222.197266	438.1992	81.768593
436.7910	218.602905	436.7910	94.194748
435.3848	200.794312	435.3848	120.831978
433.9785	232.737518	433.9785	65.735023
432.5703	193.617111	432.5703	106.578224
431.1621	221.998154	431.1621	94.12722
429.7539	202.42601	429.7539	94.110336
428.3457	202.389709	428.3457	76.339981
426.9375	216.553665	426.9375	133.127243



425.5293	204.091843	425.5293	122.455109
424.1211	180.988129	424.1211	102.914818
422.7109	237.726074	422.7109	108.218582
421.3027	198.660782	421.3027	78.045303
419.8926	225.226715	419.8926	92.218811
418.4824	230.505676	418.4824	118.79908
417.0723	209.190704	417.0723	104.595352
415.6621	219.788071	415.6621	122.30143
414.2500	233.925964	414.2500	122.279488
412.8398	230.340302	412.8398	104.539063
411.4277	230.298965	411.4277	113.377953
410.0176	232.028854	410.0176	72.61972
408.6055	230.216324	408.6055	111.566376
407.1934	210.698654	407.1934	116.858078
405.7813	247.836288	405.7813	111.526329
404.3691	214.162918	404.3691	107.966431
402.9551	242.438461	402.9551	104.407799
401.5430	219.393951	401.5430	106.158363
400.1289	245.889404	400.1289	113.215263
398.7168	222.852539	398.7168	111.42627
397.3027	249.33783	397.3027	86.649315
395.8887	235.148773	395.8887	86.633759
394.4746	235.106552	394.4746	121.972572
393.0605	217.39032	393.0605	79.533043
391.6445	215.584198	391.6445	106.025017
390.2305	238.513443	390.2305	130.740707
388.8145	203.141632	388.8145	81.256653
387.3984	222.532593	387.3984	114.798561
385.9844	210.131927	385.9844	111.246315
384.5684	197.735703	384.5684	82.978371
383.1504	208.29126	383.1504	100.615273
381.7344	224.137604	381.7344	54.710754
380.3184	225.861893	380.3184	123.518219
378.9004	194.065186	378.9004	125.260262
377.4844	216.961182	377.4844	118.182106
376.0664	213.395004	376.0664	82.888969
374.6484	238.042557	374.6484	79.347519
373.2305	283.836761	373.2305	114.592484
371.8125	248.532867	371.8125	103.996025
370.3926	227.340271	370.3926	102.215004
368.9746	250.205551	368.9746	95.14859
367.5547	234.305328	367.5547	96.893181
366.1367	236.024597	366.1367	109.205406
364.7168	220.132614	364.7168	107.424713
363.2969	237.700485	363.2969	79.233498
361.8770	251.741165	361.8770	103.865242
360.4551	223.534134	360.4551	89.765678
359.0352	263.969208	359.0352	133.7444
357.6152	263.921753	357.6152	126.682442
356.1934	237.486862	356.1934	112.586365
354.7715	233.926468	354.7715	105.530739
353.3496	228.60881	353.3496	112.545876
351.9277	246.149826	351.9277	116.042061
350.5059	249.621338	350.5059	77.347458
349.0840	226.72789	349.0840	101.939674
347.6621	246.017029	347.6621	82.591431

346.2383	237.188019	346.2383	80.819626
344.8145	244.171875	344.8145	101.884674
343.3926	191.438461	343.3926	103.622658
341.9688	247.596024	341.9688	122.920013
340.5449	259.841278	340.5449	115.87516
339.1191	198.356628	339.1191	122.875786
337.6953	205.341141	337.6953	129.873886
336.2715	235.134705	336.2715	110.548409
334.8457	252.636597	334.8457	124.563873
333.4199	256.099335	333.4199	101.738091
331.9941	222.731247	331.9941	99.965988
330.5684	226.198105	330.5684	113.975784
329.1426	268.233185	329.1426	92.917374
327.7168	238.386566	327.7168	115.687599
326.2910	261.126495	326.2910	108.656662
324.8633	245.309586	324.8633	98.123833
323.4375	236.505936	323.4375	108.617538
322.0098	238.214935	322.0098	75.317955
320.5820	243.425827	320.5820	115.583488
319.1543	248.634842	319.1543	119.064568
317.7266	276.60022	317.7266	105.038055
316.2969	257.296875	316.2969	117.27137
314.8691	243.250519	314.8691	96.250206
313.4395	248.455765	313.4395	90.983803
312.0117	246.661636	312.0117	85.719292
310.5820	271.104004	310.5820	99.69632
309.1523	262.311462	309.1523	80.442184
307.7227	227.295639	307.7227	108.402534
306.2930	311.164124	306.2930	101.390556
304.8613	258.674103	304.8613	97.876686
303.4316	276.102325	303.4316	153.778519
302.0000	246.350708	302.0000	117.060272
300.5684	263.774841	300.5684	129.267151
299.1387	272.460022	299.1387	124.004234
297.7070	293.365601	297.7070	132.712997
296.2734	265.378174	296.2734	123.959541
294.8418	249.61998	294.8418	97.753281
293.4102	274.008911	293.4102	125.660133
291.9766	237.315231	291.9766	155.30188
290.5449	242.506409	290.5449	137.827377
289.1113	245.951355	289.1113	146.524216
287.6777	256.371124	287.6777	132.545624
286.2441	285.967926	286.2441	122.059479
284.8105	306.837067	284.8105	123.780861
283.3750	287.60788	283.3750	135.960083
281.9414	270.128387	281.9414	106.308586
280.5059	280.534363	280.5059	90.607368
279.0703	299.647247	279.0703	113.238785
277.6367	276.949524	277.6367	118.443817
276.2012	311.729706	276.2012	73.14328
274.7637	289.037964	274.7637	120.142288
273.3281	288.985809	273.3281	90.525681
271.8926	278.490295	271.8926	118.358376
270.4551	281.920563	270.4551	140.960281
269.0195	259.250519	269.0195	104.396179
267.5820	306.173523	267.5820	104.377342

266.1445	288.725189	266.1445	85.226112
264.7070	266.066162	264.7070	128.685593
263.2695	290.35968	263.2695	85.195358
261.8301	265.970123	261.8301	121.685684
260.3926	258.96991	260.3926	81.688499
258.9531	288.464752	258.9531	67.771835
257.5156	250.189301	257.5156	79.921585
256.0762	265.778137	256.0762	100.752502
254.6367	270.940552	254.6367	121.57589
253.1973	277.837585	253.1973	81.614792
251.7559	270.842743	251.7559	93.75325
250.3164	293.359985	250.3164	123.245911
248.8750	286.364838	248.8750	130.165833
247.4355	230.785721	247.4355	79.820625
245.9941	305.34549	245.9941	126.648987
244.5527	308.759552	244.5527	121.422302
243.1113	256.675079	243.1113	84.980255
241.6699	287.840302	241.6699	93.634796
240.2266	272.185333	240.2266	124.823845
238.7852	235.735779	238.7852	133.468048
237.3418	272.087006	237.3418	84.918869
235.9004	251.245132	235.9004	110.894409
234.4570	275.453522	234.4570	117.804016
233.0137	294.456818	233.0137	105.658043
231.5703	332.50293	231.5703	114.297874
230.1250	299.54483	230.1250	105.619858
228.6816	320.264618	228.6816	145.41745
227.2383	266.550476	227.2383	109.043381
225.7930	287.268707	225.7930	117.676346
224.3477	266.454132	224.3477	102.083076
222.9023	275.055511	222.9023	124.553444
221.4570	295.760956	221.4570	119.34214
220.0117	293.97821	220.0117	100.298447
218.5664	312.943726	218.5664	112.38311
217.1191	264.484711	217.1191	93.347549
215.6738	273.078644	215.6738	171.106232
214.2266	205.635956	214.2266	139.970688
212.7793	286.801636	212.7793	96.752365
211.3320	309.206085	211.3320	89.825233
209.8848	333.329498	209.8848	77.719315
208.4375	324.635315	208.4375	101.880226
206.9883	236.52655	206.9883	141.570633
205.5410	295.173187	205.5410	75.950996
204.0918	321.007477	204.0918	113.905884
202.6426	324.400482	202.6426	94.904396
201.1934	307.089569	201.1934	105.238564
199.7441	269.085999	199.7441	119.018799
198.2949	294.906281	198.2949	108.649681
196.8457	279.334351	196.8457	108.63002
195.3945	313.763275	195.3945	113.782288
193.9453	310.259155	193.9453	86.183105
192.4941	272.289307	192.4941	87.890854
191.0430	301.531677	191.0430	132.67395
189.5918	280.804382	189.5918	160.213547
188.1406	325.536346	188.1406	98.177628
186.6895	327.199524	186.6895	91.271446

185.2363	330.583862	185.2363	108.472832
183.7852	347.738831	183.7852	99.845802
182.3320	325.30069	182.3320	92.943054
180.8789	316.637512	180.8789	75.717667
179.4258	309.697998	179.4258	89.468307
177.9727	330.284698	177.9727	118.696068
176.5195	342.264343	176.5195	118.674576
175.0645	333.604309	175.0645	106.615814
173.6113	349.017578	173.6113	103.157906
172.1563	336.921478	172.1563	130.643021
170.7031	360.921906	170.7031	97.964516
169.2480	323.052521	169.2480	101.383499
167.7930	309.249573	167.7930	108.23735
166.3379	297.169342	166.3379	103.064514
164.8809	355.508148	164.8809	75.566948
163.4258	382.917664	163.4258	116.76413
161.9688	379.414642	161.9688	130.477432
160.5137	312.402496	160.5137	104.706337
159.0566	307.197357	159.0566	125.281601
157.5996	384.356049	157.5996	102.952515
156.1426	370.56189	156.1426	118.37394
154.6836	481.986206	154.6836	99.484695
153.2266	404.72641	153.2266	108.041374
151.7676	370.360443	151.7676	130.311996
150.3105	344.578491	150.3105	101.144928
148.8516	368.512146	148.8516	104.554611
147.3926	366.731659	147.3926	113.104156
145.9336	358.098206	145.9336	95.94976
144.4746	340.902496	144.4746	125.054688
143.0156	407.638611	143.0156	78.7873
141.5547	429.82663	141.5547	113.022141
140.0938	520.492432	140.0938	116.425941
138.6348	504.991516	138.6348	131.81134
137.1738	397.073853	137.1738	107.826088
135.7129	302.88501	135.7129	104.384102
134.2520	396.92981	134.2520	99.232452
132.7891	405.410797	132.7891	107.767426
131.3281	419.019501	131.3281	116.299294
129.8652	521.541931	129.8652	140.217819
128.4043	482.125031	128.4043	128.224747
126.9414	399.988617	126.9414	131.620178
125.4785	459.732544	125.4785	140.14151
124.0156	586.095337	124.0156	193.086807
122.5527	572.321594	122.5527	143.507507
121.0879	500.47699	121.0879	133.232788
119.6250	459.398895	119.6250	117.838379
118.1602	580.547485	118.1602	107.572037
116.6953	662.386902	116.6953	133.160248
115.2305	614.474243	115.2305	172.39415
113.7656	542.687012	113.7656	175.775986
112.3008	464.100861	112.3008	121.143974
110.8359	552.725647	110.8359	146.711136
109.3691	673.725281	109.3691	151.801392
107.9043	931.106873	107.9043	206.344208
106.4375	908.772644	106.4375	219.946854
104.9707	661.425415	104.9707	163.651657

103.5039	521.544922	103.5039	138.056
102.0371	507.817505	102.0371	144.847275

**Figure 1d.** TGA data

The TGA analysis was performed on the TA Instruments DSC SDT Q600 (New Castle, DE) under the air flow rate of 100 mL/min with the temperature (T) ramp rate of 10 °C/min up to 1000 °C.

CNT		CNT-Fe <sub>3</sub> O <sub>4</sub> NHs	
T (°C)	Retained Weight (%)	T (°C)	Retained Weight (%)
21.20833	100	21.26082	100
21.21236	99.99991996	21.2906	100.0018475
21.21701	99.99983991	21.31382	100.0035103
21.22538	99.99959978	21.34228	100.0042493
21.23128	99.99919957	21.37365	100.0037874
21.25165	99.99911952	21.39964	100.0024941
21.26415	99.99903948	21.42586	100.001478
21.27252	99.99895943	21.44854	100.0012009
21.27924	99.9987193	21.48384	100.0013856
21.28666	99.99823904	21.50961	100.0019399
21.29608	99.99767874	21.5322	100.002217
21.30748	99.99703839	21.55949	100.0018475
21.31635	99.99639804	21.58142	100.0006466
21.32877	99.99599783	21.60924	99.99916862
21.33246	99.99559761	21.63352	99.99833723
21.34538	99.99519739	21.66064	99.99815248
21.36326	99.99471713	21.6885	99.99842961
21.3748	99.99415683	21.70612	99.99907624
21.38115	99.99367657	21.73704	99.99981525
21.39604	99.99335639	21.76676	100.0001848
21.4046	99.9931963	21.79278	99.99972287
21.4204	99.99303622	21.8205	99.99861436
21.43046	99.99279609	21.84273	99.99741348
21.4403	99.992636	21.87025	99.99667447
21.45494	99.99255596	21.8949	99.99685922
21.46559	99.99231583	21.92421	99.99898387
21.47918	99.99191561	21.95219	100.0013856
21.49153	99.99151539	21.97706	100.0025865
21.49958	99.99111517	21.99828	100.0025865
21.51983	99.99071496	22.0315	100.0019399
21.5373	99.99055487	22.06301	100.0005543
21.54881	99.99047483	22.0822	99.99935337
21.56673	99.99055487	22.11106	99.99916862
21.58043	99.99039478	22.13864	99.99972287
21.59638	99.98999457	22.16545	100.0005543
21.61071	99.98967439	22.18847	100.0004619
21.62461	99.98943426	22.22587	99.99990762
21.64139	99.98943426	22.2488	99.99926099
21.66212	99.98943426	22.28562	99.99824486
21.6811	99.98943426	22.30698	99.99704397
21.69916	99.98919413	22.34105	99.99648972

21.71518	99.98887396	22.36493	99.99648972
21.73358	99.98855378	22.39227	99.99722872
21.75251	99.98831365	22.42291	99.99815248
21.76842	99.98799348	22.44576	99.99907624
21.79441	99.98783339	22.48621	99.99926099
21.81285	99.98775335	22.51145	99.99861436
21.83754	99.98759326	22.54177	99.99750585
21.86366	99.98751322	22.56995	99.99648972
21.88148	99.98743317	22.60293	99.99593546
21.90406	99.98743317	22.63242	99.99621259
21.92383	99.98743317	22.6624	99.99722872
21.95302	99.98719304	22.69234	99.99833723
21.97634	99.98703296	22.7273	100
21.9975	99.98695291	22.75184	100.0012009
22.01981	99.98687287	22.78374	100.0011085
22.04604	99.98663274	22.82386	100.0001848
22.07629	99.98631256	22.85867	99.99916862
22.10247	99.98623252	22.88851	99.99907624
22.132	99.98599239	22.92722	99.99981525
22.15771	99.9858323	22.9585	100.0008314
22.18617	99.98567222	22.9887	100.0017551
22.22301	99.98543209	23.02245	100.0019399
22.24776	99.98503187	23.06498	100.0006466
22.27697	99.9847117	23.10017	99.99861436
22.31057	99.98439152	23.14236	99.99741348
22.3421	99.98423143	23.17582	99.9969516
22.37768	99.98431148	23.2079	99.99722872
22.40922	99.98431148	23.24324	99.99806011
22.43985	99.98431148	23.28476	99.99926099
22.47422	99.98407135	23.3176	100.0000924
22.50604	99.98391126	23.36062	100.0004619
22.54353	99.98391126	23.39559	100.002217
22.57813	99.98383122	23.43594	100.0040645
22.61576	99.98383122	23.47751	100.0042493
22.65332	99.98391126	23.51482	100.0036027
22.6898	99.98375117	23.56188	100.0038798
22.72245	99.983431	23.60508	100.0050807
22.76534	99.98295074	23.63813	100.0068358
22.80755	99.98247048	23.67938	100.0079443
22.84744	99.98223035	23.72034	100.0078519
22.88409	99.98199022	23.77057	100.0069282
22.93125	99.98175009	23.80578	100.003695
22.96933	99.98150996	23.85756	100.0003695
23.01236	99.98134987	23.89472	99.99926099
23.0557	99.98094965	23.94103	99.99981525
23.09198	99.98070952	23.98308	100.0006466
23.13684	99.98038935	24.03718	100.0012009
23.18211	99.98022926	24.07588	100.0005543
23.2339	99.97998913	24.121	99.99953812
23.27627	99.979749	24.16509	99.99842961
23.31508	99.97950887	24.21864	99.99741348
23.36818	99.97942883	24.26623	99.9969516
23.41693	99.97926874	24.31279	99.99713635
23.45889	99.97902861	24.36399	99.99778298
23.51183	99.97886852	24.41797	99.99870674
23.57054	99.97862839	24.46388	99.99953812

23.61733	99.97838826	24.51107	99.99944574
23.66036	99.97822817	24.55784	99.99889149
23.70945	99.97822817	24.6115	99.99796773
23.76191	99.97798804	24.65968	99.99722872
23.81806	99.97766787	24.70838	99.99704397
23.87032	99.97742774	24.76774	99.9973211
23.92351	99.97718761	24.81672	99.99796773
23.98078	99.97678739	24.87223	99.99879911
24.03518	99.97654726	24.92576	99.99916862
24.08905	99.97638717	24.9828	99.99879911
24.14294	99.97638717	25.03684	99.99806011
24.20286	99.97622709	25.09015	99.99722872
24.25755	99.97582687	25.14067	99.99648972
24.32027	99.97574683	25.19503	99.99648972
24.37622	99.97558674	25.25408	99.99722872
24.42618	99.97526656	25.30702	99.99815248
24.48404	99.97510648	25.36404	99.99889149
24.55246	99.97486635	25.42777	99.99898387
24.60887	99.97462622	25.4833	99.99861436
24.66411	99.97430604	25.53929	99.99778298
24.72441	99.97390583	25.59864	99.99685922
24.78468	99.97358565	25.65747	99.99621259
24.85005	99.97318543	25.71442	99.99612021
24.90766	99.97278522	25.7746	99.99667447
24.96535	99.97254509	25.8326	99.9973211
25.03522	99.97246504	25.88931	99.99778298
25.10152	99.97230496	25.95072	99.99759823
25.16619	99.97206483	26.01902	99.9969516
25.2295	99.9718247	26.07526	99.99593546
25.29215	99.97142448	26.14417	99.99528883
25.37006	99.97118435	26.20463	99.99519646
25.43285	99.97094422	26.2623	99.99565833
25.49808	99.97086417	26.32633	99.99685922
25.56254	99.97078413	26.38926	99.99852199
25.62876	99.97046396	26.45656	99.99981525
25.69912	99.97014378	26.51996	100
25.77058	99.96966352	26.58288	99.99916862
25.83412	99.96934335	26.65196	99.99815248
25.90469	99.96902317	26.7174	99.99741348
25.98473	99.96894313	26.7844	99.99704397
26.05625	99.96886309	26.84421	99.99750585
26.1263	99.96878304	26.91002	99.99833723
26.19444	99.96862296	26.97459	99.99870674
26.26532	99.96838283	27.04873	99.99759823
26.33951	99.9681427	27.115	99.99593546
26.41641	99.96790256	27.18552	99.99445745
26.48656	99.96766243	27.25244	99.99362607
26.56055	99.96750235	27.31842	99.99325656
26.63456	99.96734226	27.38818	99.99325656
26.7117	99.96718217	27.45762	99.99390319
26.77799	99.96694204	27.53088	99.99445745
26.86289	99.96678196	27.59938	99.99482695
26.93113	99.96622165	27.67123	99.99547358
27.01816	99.96574139	27.74404	99.99547358
27.09358	99.96550126	27.8106	99.9946422
27.16897	99.96518109	27.88252	99.99390319

27.24639	99.96486091	27.9552	99.99371844
27.32291	99.96462078	28.02722	99.99418032
27.40365	99.96414052	28.09832	99.9950117
27.48006	99.96366026	28.17405	99.99556596
27.55928	99.96326004	28.24309	99.99575071
27.63168	99.96293987	28.3155	99.9950117
27.71724	99.96253965	28.39313	99.99325656
27.79429	99.96229952	28.46417	99.9915938
27.87162	99.9618993	28.53428	99.99085479
27.95652	99.96141904	28.61532	99.99076241
28.03804	99.96109887	28.68518	99.99103954
28.11157	99.96085874	28.76301	99.99140905
28.1941	99.96069865	28.83823	99.99187093
28.279	99.96061861	28.91305	99.99150142
28.36672	99.96037848	28.98882	99.99214805
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56.57494	99.77371708	56.66297	99.6151622
56.65314	99.77331687	56.74675	99.61377656
56.73068	99.77275656	56.82109	99.61239093
56.8102	99.77243639	56.90425	99.61063579
56.8898	99.77203617	56.97561	99.60841877
56.9653	99.77163595	57.05718	99.60573987
57.04258	99.77139582	57.13032	99.60306097
57.1195	99.77107565	57.2117	99.60056682
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57.27801	99.77011513	57.36516	99.59622515
57.35278	99.76971491	57.4482	99.59502427
57.43739	99.7691546	57.52485	99.5933615
57.51138	99.7685943	57.6034	99.59132923
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57.66809	99.76755374	57.7595	99.58587906
57.74556	99.76707347	57.83554	99.58338491
57.8277	99.76659321	57.91318	99.58079839
57.90237	99.76611295	57.99114	99.57839661
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84.07758	99.5697663	84.09936	98.75782193
84.16105	99.56936608	84.17997	98.75569728
84.24618	99.56872573	84.26381	98.75320313
84.32156	99.56800534	84.34425	98.75043186
84.4088	99.56752508	84.43006	98.74775296
84.49022	99.56696478	84.51228	98.74525881
84.57014	99.56640447	84.58953	98.74341129
84.65246	99.56592421	84.67725	98.74202565
84.73606	99.56544395	84.75961	98.74064002
84.81812	99.56464351	84.84222	98.73897725
84.89785	99.56376304	84.92232	98.73694498
84.98231	99.5629626	85.0053	98.73435846
85.06358	99.56216217	85.08282	98.73158718
85.1466	99.56160186	85.17199	98.72900066
85.22476	99.5611216	85.25419	98.72669126
85.30803	99.56064134	85.33725	98.72484375
85.39031	99.55984091	85.42257	98.72308861
85.47574	99.5592806	85.50356	98.72124109
85.55759	99.55864025	85.59118	98.7193012
85.63845	99.55799991	85.66631	98.7169918
85.71694	99.55735956	85.74945	98.7143129
85.80411	99.55679925	85.83569	98.71172638
85.88795	99.55623895	85.91884	98.70960173
85.96014	99.55543851	85.99774	98.70775421
86.04564	99.55447799	86.07884	98.7062762
86.1338	99.55343743	86.16398	98.70507531
86.21086	99.55263699	86.24926	98.70387443
86.29582	99.55167647	86.33088	98.70193454
86.37519	99.55063591	86.4161	98.69962514
86.46076	99.54983547	86.49376	98.69713099
86.54312	99.54927517	86.57801	98.69472922
86.62491	99.54879491	86.66421	98.6925122
86.70421	99.54807451	86.74507	98.69057231
86.79272	99.54775434	86.83364	98.68900192
86.87375	99.54751421	86.91001	98.6875239
86.95445	99.54703395	86.99378	98.68576876
87.03648	99.54663373	87.08041	98.68355174

87.11918	99.54631356	87.15589	98.68105759
87.20368	99.54591334	87.24238	98.67856344
87.28424	99.54535304	87.31674	98.67625405
87.36222	99.54471269	87.40316	98.6741294
87.44406	99.54407234	87.48858	98.67255901
87.52555	99.54375217	87.5716	98.67126575
87.61558	99.54327191	87.65019	98.66988011
87.6965	99.54263156	87.737	98.6680326
87.77547	99.54207125	87.81556	98.6657232
87.85605	99.54151095	87.89788	98.66313668
87.93488	99.5408706	87.97631	98.66045778
88.01399	99.5403103	88.06094	98.65814838
88.09978	99.54007017	88.149	98.65630086
88.18207	99.53991008	88.23358	98.65509998
88.26795	99.53974999	88.31222	98.65389909
88.34445	99.53926973	88.3967	98.65260583
88.43092	99.53862938	88.47812	98.65094307
88.51338	99.53822917	88.56476	98.6489108
88.5978	99.53798904	88.64368	98.64669378
88.68156	99.53758882	88.71999	98.64447676
88.76454	99.53726864	88.80488	98.64262924
88.83586	99.53710856	88.88569	98.64133598
88.92606	99.5366283	88.96808	98.64022747
89.00957	99.53598795	89.05128	98.63874945
89.09121	99.53550769	89.13774	98.63699431
89.16945	99.53510747	89.21816	98.63459254
89.25304	99.5347873	89.29916	98.63172889
89.33444	99.53422699	89.38611	98.62886524
89.4215	99.53358664	89.46766	98.62637109
89.50301	99.53302634	89.55205	98.62470832
89.58518	99.53246604	89.63336	98.62341506
89.66637	99.53182569	89.70909	98.62221418
89.74625	99.53142547	89.79741	98.62082854
89.82459	99.53102525	89.87957	98.61916577
89.90912	99.53054499	89.96431	98.61685638
89.99514	99.53006473	90.04288	98.61436223
90.07753	99.52958447	90.12822	98.61242234
90.16259	99.5292643	90.20965	98.61085195
90.24275	99.52902417	90.29386	98.60965106
90.32691	99.52862395	90.37222	98.60826542
90.40939	99.52846386	90.45988	98.60687978
90.4918	99.52838382	90.5385	98.60530939
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90.74112	99.52718317	90.78849	98.59838121
90.81949	99.52694304	90.87089	98.59625656
90.90603	99.52654282	90.95491	98.5945938
90.98572	99.52622264	91.034	98.59330053
91.07305	99.52590247	91.12176	98.59209965
91.15516	99.52550225	91.20272	98.59099114
91.23778	99.52494195	91.2837	98.58951312
91.31391	99.52446169	91.36295	98.58757323
91.39813	99.52398143	91.44626	98.58535621
91.47797	99.52342112	91.52853	98.58350869
91.56582	99.52278077	91.61218	98.58203068
91.64519	99.52230051	91.6985	98.58046029

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91.88969	99.52150008	91.9391	98.57611863
91.97394	99.52125995	92.02416	98.57427111
92.05499	99.52085973	92.10884	98.57223884
92.13566	99.52045951	92.19344	98.57002182
92.21734	99.52029943	92.27516	98.5678048
92.30074	99.52013934	92.35871	98.56577253
92.37932	99.51997925	92.44009	98.56429452
92.46294	99.51973912	92.52108	98.56337076
92.54481	99.5193389	92.6102	98.562447
92.62894	99.51885864	92.68859	98.56096899
92.70428	99.51837838	92.77411	98.55912147
92.79301	99.51773804	92.85121	98.55681207
92.87182	99.51741786	92.93603	98.55450268
92.95888	99.51709769	93.01816	98.55247041
93.0417	99.51653738	93.10136	98.55108477
93.12507	99.51605712	93.18574	98.54997626
93.20639	99.5156569	93.26781	98.54886775
93.28593	99.51525669	93.34949	98.54748211
93.36699	99.51501656	93.43504	98.54572697
93.44859	99.51469638	93.5161	98.5436947
93.53553	99.51421612	93.60204	98.54129293
93.61806	99.51389595	93.6855	98.53926066
93.70397	99.51365582	93.76431	98.5375979
93.78137	99.5132556	93.84749	98.53621226
93.86211	99.51317556	93.93201	98.534919
93.94669	99.51317556	94.00897	98.53390286
94.02838	99.51293543	94.08859	98.53279435
94.11251	99.51245517	94.175	98.53113159
94.19555	99.51173477	94.25291	98.52919169
94.27199	99.51117447	94.3352	98.52715942
94.3567	99.51093434	94.42343	98.52531191
94.43907	99.51061417	94.50469	98.52383389
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94.60331	99.51021395	94.66942	98.52161687
94.68511	99.50973369	94.7532	98.52060074
94.76828	99.5090133	94.83446	98.51893797
94.85265	99.50837295	94.91906	98.51681333
94.93574	99.50797273	94.99845	98.51468868
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95.10178	99.50741243	95.16314	98.51071652
95.18	99.50701221	95.24632	98.50933088
95.26376	99.50653195	95.32922	98.50840713
95.34312	99.50597164	95.4092	98.50729862
95.42699	99.50541134	95.49035	98.5058206
95.50738	99.50485104	95.57472	98.50415784
95.59572	99.50453086	95.65692	98.50258745
95.67613	99.50421069	95.74212	98.50083231
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96.0063	99.50309008	96.0748	98.49464312
96.08869	99.50268986	96.15568	98.49334986
96.17036	99.50236969	96.23804	98.49214898
96.25278	99.50188943	96.32244	98.49057859

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96.41495	99.50108899	96.48157	98.48688355
96.49652	99.5009289	96.56874	98.48466653
96.58342	99.5003686	96.65345	98.48300377
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96.74319	99.49948812	96.8189	98.48152575
96.82431	99.49924799	96.90389	98.48078675
96.9142	99.49884777	96.98181	98.47940111
96.99219	99.49844756	97.0663	98.47755359
97.07934	99.49820743	97.14922	98.47552132
97.15734	99.49788725	97.22962	98.4733043
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97.32136	99.49708682	97.39344	98.47007115
97.40126	99.49700677	97.47241	98.46914739
97.48647	99.49676664	97.56049	98.46813125
97.56441	99.49644647	97.64345	98.46674562
97.64884	99.49604625	97.72855	98.46517523
97.72992	99.49564603	97.80864	98.46305058
97.81629	99.49524582	97.891	98.46092594
97.89488	99.4948456	97.97926	98.45880129
97.98219	99.49452543	98.06068	98.4572309
98.05975	99.49444538	98.13918	98.45621477
98.14361	99.49412521	98.21945	98.45538339
98.22511	99.49372499	98.30314	98.454552
98.30937	99.49332477	98.3877	98.45344349
98.39015	99.49284451	98.4686	98.45159598
98.46892	99.4924443	98.55561	98.44956371
98.55453	99.49228421	98.63632	98.44771619
98.63749	99.49212412	98.71611	98.44633055
98.71845	99.49188399	98.80572	98.44531442
98.80316	99.49180395	98.88359	98.44429829
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99.04822	99.4906033	99.13274	98.44069563
99.13381	99.48996295	99.21619	98.43884811
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99.29406	99.48948269	99.38541	98.43487595
99.37512	99.48924256	99.46132	98.43312081
99.46275	99.48892238	99.54772	98.43182755
99.54268	99.48868225	99.63222	98.43090379
99.62772	99.48812195	99.71587	98.43016478
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100.5331	99.48355947	100.6172	98.41492276
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101.2812	99.48091803	101.3718	98.40171302
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101.4401	99.47963734	101.5354	98.39801798
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101.9365	99.47659569	102.0317	98.39090504
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102.2678	99.47563517	102.3602	98.38388448
102.3499	99.47539503	102.4444	98.38314547
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102.5199	99.47435447	102.6102	98.38102083
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102.9334	99.47227334	103.0288	98.37252225
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112.1217	99.43681408	112.2563	98.2338661
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112.2877	99.43609369	112.4239	98.23229571
112.3722	99.43577351	112.5042	98.2319262
112.4495	99.43545334	112.5838	98.2311872
112.5365	99.43529325	112.6713	98.22989393
112.6208	99.43505312	112.7549	98.22841592
112.6994	99.4346529	112.8393	98.22675316
112.783	99.43433273	112.9214	98.22527514
112.8687	99.43401256	113.0041	98.22379713
112.9524	99.43377243	113.0869	98.22268862
113.038	99.43345225	113.1707	98.22213436
113.1186	99.43289195	113.2535	98.22130298
113.1979	99.43257177	113.3405	98.22019447
113.2864	99.43241169	113.4195	98.21862408
113.3687	99.43217156	113.5037	98.21668419
113.4514	99.43209151	113.5854	98.21474429
113.5328	99.43185138	113.67	98.2131739
113.6139	99.43161125	113.7542	98.21215777
113.6902	99.43121103	113.834	98.21188064
113.7785	99.43065073	113.9184	98.21160352
113.8605	99.43025051	114.003	98.21077213
113.9458	99.43017047	114.0875	98.20957125
114.0309	99.43001038	114.1702	98.20809323
114.1144	99.42977025	114.251	98.20624572
114.1946	99.42945008	114.3313	98.2047677
114.2784	99.42904986	114.4182	98.20356682
114.3603	99.42880973	114.5018	98.20273543
114.4385	99.42848956	114.5841	98.20227355
114.5226	99.42800929	114.6674	98.20162692
114.605	99.42776916	114.749	98.20088792
114.6894	99.42752903	114.8284	98.19950228
114.7735	99.42744899	114.919	98.19783951

114.8564	99.42720886	114.996	98.195992
114.9395	99.42704877	115.0854	98.19460636
115.0212	99.4267286	115.1648	98.19349785
115.1047	99.42648847	115.2514	98.19303597
115.189	99.42624834	115.3376	98.19266647
115.2738	99.42600821	115.413	98.19201983
115.3562	99.42584812	115.4956	98.19072657
115.4393	99.42568803	115.5798	98.18906381
115.5241	99.42552795	115.6659	98.18749342
115.6075	99.42528782	115.7466	98.18583065
115.6973	99.4248876	115.8295	98.18490689
115.7706	99.42448738	115.9137	98.18426026
115.8562	99.42400712	115.9982	98.18379838
115.94	99.4236069	116.0864	98.18315175
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116.1063	99.4230466	116.248	98.18102711
116.1865	99.42280647	116.3304	98.17964147
116.2722	99.42272642	116.4155	98.17797871
116.3509	99.42256634	116.4997	98.17622356
116.4373	99.42224616	116.5789	98.17502268
116.5207	99.42184595	116.6614	98.17409892
116.5969	99.42152577	116.748	98.17326754
116.679	99.4212056	116.8275	98.17243615
116.7626	99.42096547	116.9152	98.17132764
116.8474	99.42072534	116.9976	98.16975725
116.9305	99.42056525	117.082	98.16800211
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117.1827	99.41928456	117.3272	98.1642147
117.2619	99.41880429	117.4109	98.16375282
117.346	99.41832403	117.4942	98.16338332
117.4285	99.41784377	117.5743	98.16282907
117.5101	99.41768369	117.6607	98.16181293
117.5923	99.41760364	117.7423	98.16024254
117.6787	99.41736351	117.8229	98.1588569
117.7607	99.41704334	117.9133	98.15747127
117.845	99.41672316	117.9942	98.15645513
117.9323	99.41656308	118.0748	98.15590088
118.0116	99.41640299	118.1625	98.15525425
118.094	99.41608282	118.2447	98.15433049
118.1778	99.41584269	118.3291	98.15303723
118.2592	99.41560256	118.4119	98.15155921
118.3418	99.41528238	118.4968	98.14998882
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140.9442	99.34284303	141.1193	97.88320736
141.022	99.34252286	141.2031	97.88265311
141.1081	99.34228273	141.2896	97.88172935
141.1907	99.34228273	141.3717	97.88052846
141.2745	99.34212264	141.4517	97.87895807
141.3604	99.34188251	141.54	97.87683343
141.4394	99.34148229	141.6184	97.87498591
141.5237	99.34116212	141.7056	97.87378503
141.609	99.34100203	141.7866	97.87304602
141.6855	99.34084195	141.8706	97.87249176
141.7646	99.34052177	141.95	97.87202989
141.8495	99.34004151	142.0345	97.8711985
141.9332	99.33972134	142.1188	97.87008999
142.0188	99.33932112	142.2006	97.86879673
142.1069	99.3389209	142.2882	97.86750347
142.1883	99.33852068	142.3693	97.86639496
142.2706	99.33796038	142.4513	97.86565595
142.3509	99.33740008	142.536	97.86528645
142.4368	99.33715995	142.62	97.86482457
142.5196	99.3370799	142.7028	97.86417794
142.6006	99.33683977	142.7878	97.86325418
142.6811	99.33667968	142.8664	97.86214567



142.7656	99.3365196	142.9518	97.86066766
142.8479	99.33635951	143.0336	97.85909727
142.9316	99.33603934	143.115	97.85798876
143.0164	99.33579921	143.2028	97.85715737
143.0961	99.33555908	143.2842	97.85669549
143.1801	99.33547903	143.3694	97.85623361
143.2622	99.3352389	143.4477	97.85567936
143.3454	99.33499877	143.5348	97.85466323
143.4307	99.33499877	143.6181	97.85327759
143.5134	99.33499877	143.7053	97.85161482
143.596	99.33475864	143.7896	97.85041394
143.6799	99.33427838	143.8726	97.84967493
143.76	99.33395821	143.9547	97.8493978
143.8443	99.33363803	144.0369	97.84921305
143.9338	99.3333979	144.1186	97.84875117
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144.1759	99.33251742	144.3684	97.84487139
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144.5133	99.33171699	144.7019	97.84173061
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144.7616	99.33147686	144.9515	97.83951359
144.8471	99.3315569	145.0295	97.83822032
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145.259	99.33011612	145.4476	97.83350916
145.3441	99.32987599	145.5325	97.8329549
145.4288	99.32955581	145.6169	97.83203114
145.5096	99.32923564	145.6984	97.83083026
145.594	99.32891547	145.7869	97.82944462
145.6779	99.32851525	145.8666	97.8279666
145.7578	99.32819508	145.9559	97.82667334
145.8429	99.3278749	146.0418	97.82584196
145.9287	99.32779486	146.121	97.82538008
146.0102	99.32755473	146.2024	97.82510295
146.0957	99.3273146	146.2847	97.8245487
146.1772	99.32699442	146.3666	97.82362494
146.2584	99.32683434	146.4504	97.82233168
146.3405	99.32675429	146.5342	97.82085366
146.4179	99.32651416	146.6225	97.81928327
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146.5914	99.32571373	146.7802	97.81780526
146.6765	99.32539355	146.8659	97.81752813
146.7569	99.32523347	146.9525	97.81697388
146.8427	99.32491329	147.0344	97.81623487
146.9231	99.32483325	147.1173	97.81494161
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147.256	99.32323238	147.4511	97.81004569
147.3402	99.32291221	147.5318	97.80949143

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147.5885	99.32211177	147.7831	97.80727441
147.6724	99.32187164	147.8666	97.8057964
147.7546	99.32155147	147.9462	97.80431839
147.8374	99.32107121	148.0346	97.80302512
147.9201	99.32083108	148.117	97.80191661
148.0044	99.32083108	148.202	97.80126998
148.0871	99.32075103	148.284	97.80099286
148.1727	99.32067099	148.3651	97.80062335
148.2555	99.32035081	148.448	97.80016147
148.3387	99.32027077	148.5306	97.79942247
148.4214	99.32035081	148.6137	97.79822158
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148.7548	99.31947034	148.9452	97.79424942
148.8406	99.31899008	149.0278	97.79387992
148.9214	99.3186699	149.1141	97.79351041
149.0034	99.31842977	149.1992	97.79258665
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149.253	99.31698899	149.4486	97.78806024
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149.42	99.31610851	149.6152	97.7863051
149.5027	99.31562825	149.6966	97.78593559
149.5844	99.31538812	149.7772	97.78519659
149.6663	99.31506794	149.8615	97.78408807
149.7491	99.31490786	149.9488	97.78297956
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151.2508	99.31018529	151.4419	97.76709092
151.3305	99.30994516	151.5245	97.76589003
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151.7447	99.30802412	151.9448	97.76210262
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152.4951	99.30506251	152.6944	97.75535919
152.5737	99.30490242	152.7758	97.75489731
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152.74	99.30442216	152.9424	97.75240316
152.8275	99.30402194	153.0282	97.75101752
152.9097	99.30362173	153.1105	97.74981663
152.9918	99.30322151	153.1938	97.74898525
153.0725	99.30274125	153.2771	97.74787674
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153.2424	99.30186077	153.4398	97.74455121
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153.4116	99.30114038	153.6107	97.74233419
153.4946	99.30082021	153.6964	97.74085618
153.5761	99.30058008	153.7802	97.73947054
153.6602	99.30033994	153.8604	97.73826965
153.7436	99.29985968	153.9441	97.73743827
153.823	99.29977964	154.0258	97.73679164
153.9056	99.29985968	154.1056	97.73614501
153.9892	99.29985968	154.1927	97.73568313
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154.4088	99.29873908	154.6128	97.73014058
154.491	99.29817877	154.6962	97.72958632
154.5716	99.2978586	154.7819	97.72912444
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154.7378	99.2965779	154.9434	97.72893969
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155.8172	99.29257573	156.0286	97.71609945
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155.9896	99.29185534	156.1923	97.71480619
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169.7159	99.24334899	169.9372	97.5621089
169.8036	99.24342903	170.0158	97.56146227
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170.298	99.24238847	170.5143	97.55425696
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198.5278	99.17299077	198.7841	97.23833154
198.6102	99.17275064	198.869	97.23713066

198.6934	99.17267059	198.9499	97.23574502
198.7777	99.17243046	199.0368	97.23445176
198.8649	99.17211029	199.1144	97.23362038
198.9458	99.17171007	199.1977	97.23306612
199.0318	99.17130986	199.2809	97.23251187
199.1159	99.17130986	199.366	97.23195761
199.1988	99.17122981	199.4452	97.23131098
199.284	99.17122981	199.534	97.23020247
199.3617	99.17130986	199.6166	97.22863208
199.4436	99.1713899	199.7006	97.22706169
199.526	99.1713899	199.7818	97.22567605
199.6141	99.17122981	199.865	97.22456754
199.6949	99.17090964	199.9489	97.22382854
199.783	99.17082959	200.0345	97.22336666
199.8604	99.17082959	200.1166	97.2228124
199.9406	99.17074955	200.1998	97.22198102
200.0264	99.17074955	200.2847	97.22059538
200.1109	99.17066951	200.3684	97.21920974
200.1925	99.17058946	200.4492	97.21763935
200.2743	99.17042938	200.5364	97.21634609
200.3624	99.17026929	200.6168	97.21560708
200.4444	99.17018925	200.7042	97.21505283
200.5279	99.17018925	200.786	97.21468333
200.6098	99.1701092	200.8706	97.21422145
200.6938	99.16978903	200.9544	97.21357482
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200.9445	99.16938881	201.2048	97.21006453
201.032	99.16906864	201.2873	97.20914078
201.1131	99.16874846	201.3738	97.20840177
201.1956	99.16858838	201.4525	97.20793989
201.2798	99.16842829	201.541	97.20757039
201.3642	99.16802807	201.6223	97.20701613
201.444	99.16778794	201.7102	97.20572287
201.5337	99.16794803	201.793	97.20415248
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201.7809	99.16786799	202.0396	97.20008794
201.8645	99.16786799	202.1262	97.19934893
201.9491	99.16786799	202.2074	97.19879468
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202.3662	99.16762786	202.6285	97.19269787
202.4496	99.16738773	202.7124	97.19158936
202.5312	99.16722764	202.7937	97.19094273
202.6106	99.16714759	202.8776	97.19038848
202.6956	99.16714759	202.9619	97.19001897
202.7844	99.16682742	203.0465	97.18955709
202.8639	99.16666733	203.1275	97.18900284
202.9447	99.16658729	203.2164	97.18798671
203.0302	99.1664272	203.3014	97.18660107
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203.198	99.16594694	203.4658	97.18401454
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203.3622	99.16538664	203.6384	97.18253653
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203.5284	99.16490638	203.803	97.18096614
203.6119	99.16490638	203.8864	97.17995001
203.6989	99.16490638	203.9701	97.17847199
203.7844	99.1645862	204.0539	97.17699398
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203.9514	99.16410594	204.2238	97.17468458
204.0318	99.16410594	204.3046	97.1742227
204.1174	99.16394586	204.3881	97.1738532
204.1992	99.16386581	204.4739	97.17357607
204.283	99.16386581	204.5568	97.17292944
204.3647	99.16378577	204.6401	97.17191331
204.454	99.16354564	204.7188	97.17052767
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205.5312	99.16242503	205.8054	97.15842643
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206.9547	99.15978359	207.2253	97.14272254
207.0362	99.15970355	207.3084	97.14235303
207.1198	99.15970355	207.3942	97.1417064
207.2052	99.15962351	207.4754	97.1409674
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207.3718	99.15946342	207.6419	97.1382885
207.4526	99.15930333	207.7288	97.13699524
207.5398	99.15922329	207.8108	97.1359791
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207.7894	99.15882307	208.0609	97.13376208
207.8743	99.15866299	208.1442	97.13311545
207.9577	99.1585029	208.2266	97.13219169

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208.1223	99.15810268	208.3944	97.12951279
208.2052	99.15770246	208.4802	97.12812715
208.2892	99.1572222	208.5659	97.12711102
208.3708	99.15698207	208.6481	97.12646439
208.454	99.15698207	208.7285	97.12591013
208.5395	99.15690203	208.8164	97.12544825
208.6234	99.15690203	208.897	97.12461687
208.7069	99.1566619	208.9809	97.12323123
208.7901	99.15658186	209.0671	97.12147609
208.8767	99.15650181	209.1517	97.1199057
208.9562	99.15634172	209.2311	97.11842769
209.0417	99.15626168	209.3144	97.11768868
209.1209	99.15634172	209.4004	97.1172268
209.2042	99.15626168	209.4821	97.1168573
209.2908	99.15602155	209.5698	97.11630304
209.3712	99.15586146	209.6536	97.11537929
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209.5402	99.15562133	209.8216	97.11260801
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209.7059	99.15506103	209.9866	97.11048337
209.7892	99.15498099	210.0696	97.10974436
209.8694	99.1548209	210.1534	97.1091901
209.9556	99.15442068	210.2348	97.10854347
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210.2917	99.15402046	210.5734	97.10392468
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210.5374	99.15394042	210.8214	97.10087628
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210.7078	99.15386038	210.9881	97.10022965
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211.124	99.15378033	211.4092	97.09477947
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211.5409	99.15257968	211.8218	97.09228532
211.6226	99.15225951	211.9073	97.09080731
211.7063	99.15201938	211.9925	97.0893293
211.786	99.15177925	212.0745	97.08803603
211.8698	99.15153912	212.1587	97.0870199
211.9541	99.15129899	212.2424	97.08637327
212.0408	99.15105886	212.3227	97.08609614
212.1222	99.15097881	212.4078	97.08544951
212.2073	99.15089877	212.4949	97.08443338
212.2918	99.15081872	212.58	97.08341724
212.3708	99.15073868	212.6617	97.08221636
212.4551	99.15049855	212.7433	97.08055359
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213.2074	99.14833738	213.4975	97.071316
213.2928	99.14817729	213.5771	97.07020749
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213.5447	99.14729681	213.8298	97.06928374
213.6272	99.14729681	213.9125	97.06863711
213.7118	99.1474569	213.9976	97.06752859
213.7958	99.14729681	214.0838	97.06623533
213.8784	99.14721677	214.1654	97.06466494
213.9592	99.14697664	214.2489	97.06337168
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214.292	99.14633629	214.5848	97.06060041
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214.5471	99.14585603	214.8356	97.05801388
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214.962	99.14537577	215.2485	97.05357984
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227.1295	99.11824103	227.4519	96.91686358
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227.2984	99.11760068	227.6186	96.9160322
227.3812	99.11752064	227.7044	96.91547794
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227.7139	99.11591977	228.0393	96.91039727
227.7998	99.11567964	228.1182	96.90947351
227.8866	99.11519938	228.2031	96.90919639
227.9672	99.11495925	228.2872	96.90901163
228.0527	99.11511933	228.3702	96.90854975
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256.2466	99.02867237	256.578	96.58486477
256.3291	99.02811207	256.666	96.58412576
256.4128	99.02771185	256.7476	96.58292488
256.4956	99.02723159	256.8335	96.58153924
256.5782	99.02675133	256.9117	96.57996885
256.6626	99.02627107	256.9966	96.57867559
256.7476	99.02579081	257.0759	96.57802896
256.8282	99.02539059	257.1589	96.57728995
256.9152	99.02515046	257.2464	96.57655094
256.9976	99.02475024	257.333	96.57562719
257.0808	99.02443007	257.4129	96.57424155
257.1652	99.02402985	257.4969	96.57276353
257.2518	99.02346955	257.5791	96.57119314
257.3359	99.02306933	257.6631	96.56971513
257.4156	99.02290924	257.746	96.56851425
257.4947	99.02274916	257.832	96.56768286
257.5801	99.02258907	257.9122	96.56694386
257.6656	99.0222689	258	96.56620485
257.7466	99.02162855	258.0846	96.56555822
257.8284	99.02106824	258.1685	96.56463446
257.9104	99.02050794	258.2477	96.56361833
257.9976	99.01986759	258.334	96.56232506
258.0827	99.01938733	258.4157	96.56084705
258.168	99.01882703	258.4996	96.55983092
258.2476	99.01834677	258.586	96.55918428
258.333	99.01786651	258.6656	96.55844528
258.414	99.01738624	258.7493	96.55789102
258.498	99.01690598	258.837	96.55705964
258.5854	99.01634568	258.9118	96.5555674
258.67	99.01578537	259.0029	96.55419599
258.7503	99.01522507	259.0872	96.55253322
258.8362	99.01482485	259.1702	96.55114759
258.9219	99.01450468	259.254	96.55040858
259.0024	99.01426455	259.3388	96.54976195
259.0824	99.01386433	259.417	96.54920769
259.1639	99.01346411	259.5086	96.54865344
259.2526	99.01298385	259.5878	96.54772968
259.3387	99.01250359	259.6738	96.54652879

259.4198	99.01210337	259.7594	96.54523553
259.5054	99.01154307	259.844	96.54375752
259.5911	99.01090272	259.9242	96.54237188
259.6704	99.01042246	260.0096	96.54144812
259.7536	99.01018233	260.0936	96.54080149
259.8383	99.0099422	260.1803	96.54015486
259.919	99.00962203	260.2598	96.5392311
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260.0912	99.00858146	260.4271	96.53682933
260.1734	99.00786107	260.5114	96.53516656
260.2588	99.00722072	260.5936	96.5335038
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260.5886	99.00577994	260.9305	96.52999352
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261.0051	99.00305846	261.3422	96.52352721
261.09	99.00297842	261.4265	96.5227882
261.1732	99.00265824	261.5125	96.52223394
261.2596	99.00249816	261.5946	96.52167969
261.3416	99.00225803	261.6778	96.52103306
261.426	99.00169772	261.7588	96.52029405
261.5102	99.00105737	261.8434	96.51918554
261.5922	99.00065716	261.9241	96.51789228
261.6755	99.0001769	262.0093	96.51659902
261.757	98.99969664	262.0943	96.51539813
261.8433	98.99937646	262.1754	96.51428962
261.929	98.99905629	262.2606	96.51345824
262.012	98.99857603	262.345	96.51262686
262.0954	98.99793568	262.4252	96.51198022
262.178	98.99697516	262.5113	96.51087171
262.2621	98.99633481	262.5937	96.50930132
262.3422	98.99585455	262.673	96.50745381
262.4245	98.99529424	262.7571	96.50606817
262.5088	98.99489403	262.8408	96.50477491
262.5908	98.99457385	262.9214	96.50385115
262.6726	98.99417364	263.0088	96.50329689
262.7553	98.99361333	263.0925	96.50255789
262.8422	98.99313307	263.1753	96.50191126
262.9258	98.99257277	263.2635	96.50071037
263.0149	98.9920925	263.3463	96.49950948
263.0988	98.99161224	263.4264	96.49821622
263.1814	98.99113198	263.51	96.49692296
263.2643	98.99089185	263.5947	96.49553732
263.3434	98.99041159	263.6767	96.49452119
263.433	98.98985129	263.7625	96.49350505
263.5144	98.98953111	263.8508	96.49267367
263.5975	98.98889077	263.9335	96.49184229
263.683	98.98817037	264.0174	96.49082615
263.7684	98.98744998	264.0992	96.48962527
263.8517	98.98712981	264.1844	96.48805488
263.9329	98.98688968	264.267	96.48657687
264.0163	98.98648946	264.3517	96.48546835

264.0952	98.98608924	264.4344	96.48482172
264.1809	98.98568903	264.5166	96.48417509
264.2652	98.98504868	264.599	96.48371321
264.353	98.98424824	264.684	96.48306658
264.4344	98.98352785	264.7665	96.48214282
264.5162	98.98312763	264.8477	96.48084956
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264.6857	98.98224716	265.0168	96.47817066
264.7736	98.9817669	265.102	96.47706215
264.859	98.98136668	265.1835	96.47623077
264.9437	98.98088642	265.2647	96.47539939
265.0266	98.98040616	265.35	96.474568
265.1064	98.97984585	265.4345	96.47355187
265.1896	98.97928555	265.5186	96.47216623
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265.3622	98.97824498	265.6854	96.46902545
265.4396	98.97768468	265.7679	96.46763982
265.5301	98.97744455	265.8547	96.46643893
265.6162	98.97720442	265.9369	96.46551517
265.6998	98.9768042	266.0185	96.46459141
265.781	98.9762439	266.1028	96.46385241
265.8658	98.9755235	266.1839	96.46302102
265.9482	98.97488316	266.2668	96.46163539
266.0304	98.9744029	266.3504	96.46015737
266.1123	98.97392263	266.4358	96.45895649
266.1956	98.97352242	266.5179	96.45757085
266.28	98.97328229	266.6056	96.45646234
266.3672	98.97280203	266.6867	96.45553858
266.4463	98.97200159	266.7674	96.45479957
266.5321	98.97120116	266.8528	96.45406057
266.6144	98.97040072	266.9362	96.45304443
266.6998	98.97008055	267.018	96.45156642
266.7815	98.96976037	267.0999	96.44999603
266.8654	98.9694402	267.1858	96.44833326
266.9476	98.96920007	267.2701	96.44685525
267.0321	98.96903998	267.352	96.44556199
267.1119	98.96863977	267.4387	96.4447306
267.2014	98.96799942	267.5176	96.44426873
267.28	98.96735907	267.6038	96.44352972
267.3628	98.96695885	267.6874	96.44251358
267.4462	98.96647859	267.7727	96.44122032
267.5308	98.96615842	267.8528	96.43974231
267.6143	98.96583824	267.94	96.43835667
267.7003	98.96543803	268.0202	96.43724816
267.7751	98.96503781	268.1066	96.43641678
267.8577	98.96415733	268.1895	96.4359549
267.942	98.96343694	268.2708	96.43530827
268.0251	98.96287663	268.3546	96.43419976
268.1098	98.96231633	268.4368	96.43309125
268.1946	98.96191611	268.5213	96.43170561
268.2735	98.96159594	268.6039	96.43004284
268.3624	98.96103563	268.6877	96.42884196
268.4421	98.96055537	268.7705	96.42773345
268.5268	98.95999507	268.8545	96.42690206
268.6078	98.95951481	268.9356	96.42634781
268.6935	98.95903455	269.0188	96.4256088

268.7763	98.9583942	269.0994	96.4248698
268.8644	98.95791394	269.1844	96.42366891
268.9472	98.95767381	269.2672	96.4221909
269.0285	98.95727359	269.3552	96.42062051
269.1134	98.95695342	269.4353	96.41923487
269.1954	98.95663324	269.5186	96.41821873
269.2805	98.9559929	269.602	96.41747973
269.3601	98.95519246	269.6849	96.4168331
269.4451	98.95455211	269.7696	96.41600171
269.5305	98.95383172	269.8565	96.41480083
269.6127	98.95319137	269.9383	96.41341519
269.6974	98.95295124	270.0203	96.41193718
269.78	98.95239094	270.1028	96.41055154
269.8634	98.95191068	270.1862	96.40925828
269.9473	98.95151046	270.2687	96.40842689
270.0296	98.95087011	270.35	96.40778026
270.1125	98.95030981	270.4354	96.40704126
270.1972	98.94982955	270.5151	96.4061175
270.2805	98.9491892	270.6027	96.40500899
270.3615	98.94894907	270.6855	96.40353097
270.4444	98.9486289	270.7678	96.40186821
270.5292	98.94814863	270.8534	96.40029782
270.6124	98.94774842	270.9358	96.39891218
270.6967	98.94718811	271.0203	96.39798842
270.7781	98.94654776	271.1059	96.39715704
270.8619	98.94598746	271.1879	96.39632566
270.948	98.94542716	271.2697	96.39549428
271.0264	98.94510698	271.3537	96.39438577
271.1125	98.94486685	271.4395	96.39300013
271.196	98.94454668	271.5204	96.39142974
271.2791	98.94398637	271.6023	96.38995172
271.3639	98.94358616	271.6846	96.38902797
271.4437	98.94302585	271.7663	96.38828896
271.528	98.9423855	271.8526	96.38764233
271.6109	98.94174516	271.9397	96.38690332
271.6924	98.94118485	272.02	96.38588719
271.7786	98.94078463	272.1058	96.3846863
271.8602	98.94030437	272.1852	96.38320829
271.9468	98.93974407	272.268	96.3816379
272.0262	98.93926381	272.3494	96.38025226
272.1124	98.93878355	272.4343	96.37923613
272.1947	98.93822324	272.5214	96.37849712
272.2805	98.9375829	272.6053	96.37775811
272.3628	98.93702259	272.6904	96.37720386
272.4433	98.93678246	272.7708	96.37637247
272.5292	98.93646229	272.8516	96.37507921
272.6146	98.93598203	272.9337	96.3736012
272.6994	98.93566185	273.02	96.37221556
272.7772	98.93534168	273.1024	96.3709223
272.8623	98.93486142	273.1874	96.36999854
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273.0278	98.93366076	273.3518	96.36879765
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273.1983	98.9326202	273.5218	96.36676539
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273.7804	98.92901824	274.1076	96.35762018
273.8668	98.92837789	274.1906	96.35651167
273.9457	98.92781759	274.2731	96.35531078
274.0295	98.92725729	274.357	96.35392514
274.1135	98.92669698	274.4346	96.35235475
274.2012	98.92621672	274.5202	96.35087674
274.2832	98.92557637	274.603	96.3498606
274.3681	98.92501607	274.6914	96.3491216
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274.5346	98.92373537	274.8575	96.34773596
274.6146	98.92325511	274.9374	96.34671983
274.7022	98.92285489	275.0212	96.34542656
274.785	98.92237463	275.1047	96.3437638
274.8688	98.92205446	275.1894	96.34210103
274.9517	98.92181433	275.2712	96.34080777
275.0348	98.9215742	275.3555	96.33988401
275.1191	98.92093385	275.4385	96.33914501
275.2028	98.9202935	275.5157	96.33859075
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275.3686	98.91925294	275.687	96.33637373
275.4479	98.91893276	275.7706	96.33498809
275.5332	98.91853255	275.8593	96.33351008
275.6188	98.91829242	275.9404	96.33175494
275.7064	98.91797224	276.023	96.33009217
275.7869	98.91725185	276.107	96.32861416
275.87	98.91645142	276.187	96.32750565
275.9506	98.91589111	276.267	96.32639714
276.0378	98.91549089	276.3516	96.32519625
276.1166	98.91517072	276.4346	96.32381061
276.2017	98.9147705	276.5206	96.32242498
276.2839	98.91445033	276.6052	96.32085459
276.3708	98.9142102	276.6863	96.3192842
276.452	98.91372994	276.7706	96.31799094
276.5333	98.91324968	276.8518	96.31725193
276.6199	98.91268937	276.9363	96.31669767
276.703	98.91220911	277.0196	96.31623579
276.7856	98.91188894	277.1033	96.31531204
276.8697	98.91132863	277.1858	96.31401877
276.9506	98.91076833	277.2724	96.31263314
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277.2007	98.90916746	277.5216	96.30810672
277.2832	98.90860716	277.6036	96.30727534
277.3709	98.90780672	277.6906	96.30644395
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277.5381	98.90668611	277.8533	96.30459644
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277.7024	98.90612581	278.0187	96.30182516
277.7866	98.90596572	278.1025	96.3001624
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278.3725	98.90236376	278.687	96.29166382
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278.623	98.90044272	278.9373	96.28649077
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279.8776	98.89227829	280.188	96.26866223
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283.3788	98.87338802	283.6885	96.21240534
283.4596	98.87306785	283.7706	96.21092732
283.5434	98.87266763	283.851	96.20926456
283.6262	98.87210733	283.9371	96.20750942
283.7112	98.87162707	284.0203	96.20612378
283.791	98.87106676	284.1022	96.20538477
283.8759	98.87050646	284.1884	96.20473814
283.9608	98.8700262	284.2667	96.20381438
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284.2965	98.86842533	284.6033	96.19753283
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284.4613	98.86730472	284.7732	96.19365304
284.5456	98.86666437	284.8516	96.19199027
284.629	98.86594398	284.9374	96.19032751
284.7132	98.86546372	285.0232	96.1888495
284.7972	98.8650635	285.1043	96.18755623
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284.9622	98.86442315	285.274	96.18487733
285.0486	98.86394289	285.356	96.18312219
285.1279	98.86346263	285.4373	96.18127468
285.2128	98.86290233	285.5188	96.18025854
285.2978	98.86226198	285.6036	96.17970429
285.383	98.86178172	285.6858	96.17896528
285.4648	98.86154159	285.7682	96.17785677
285.548	98.86122142	285.8504	96.17665588
285.6318	98.86074115	285.9373	96.17517787
285.715	98.86026089	286.0197	96.17333035
285.7966	98.85970059	286.1017	96.17111333
285.8808	98.8589802	286.1858	96.16908106
285.9644	98.85825981	286.271	96.1674183
286.044	98.85753942	286.349	96.16547841
286.1277	98.85681902	286.435	96.16372326
286.2128	98.85609863	286.5182	96.16224525
286.2975	98.85553833	286.6025	96.16085961
286.3807	98.85513811	286.6883	96.15928922
286.4636	98.85481794	286.7666	96.15734933
286.5458	98.85433768	286.8528	96.15531706
286.626	98.85369733	286.9391	96.15356192
286.7091	98.85289689	287.0224	96.15199153
286.7953	98.85225655	287.1038	96.15069827
286.8787	98.85201642	287.1849	96.14958976
286.9623	98.85169624	287.267	96.14848125
287.0466	98.85153615	287.3526	96.14718799
287.1274	98.85145611	287.434	96.14534047
287.2082	98.85113594	287.5187	96.14303107
287.292	98.85065568	287.6055	96.14081405
287.377	98.85001533	287.6826	96.13887416

287.4612	98.84945502	287.762	96.13711902
287.5455	98.84913485	287.8474	96.13573338
287.6276	98.84881468	287.9304	96.13444012
287.7088	98.84841446	288.0156	96.13342398
287.7912	98.84817433	288.1	96.13166884
287.875	98.84801424	288.183	96.12972895
287.959	98.84761402	288.2664	96.12806619
288.0412	98.84705372	288.3458	96.12621867
288.1228	98.84649342	288.431	96.12437115
288.2118	98.84601315	288.5151	96.12280076
288.2959	98.84553289	288.5956	96.1215075
288.3792	98.84505263	288.6848	96.12049137
288.4575	98.84489255	288.7663	96.11910573
288.544	98.84457237	288.8448	96.11716583
288.6278	98.8442522	288.932	96.11504119
288.7117	98.84353181	289.0117	96.11291655
288.7916	98.84265133	289.095	96.11069953
288.8721	98.84185089	289.1811	96.10894438
288.9582	98.84129059	289.2642	96.10765112
289.0419	98.8405702	289.3498	96.10654261
289.1268	98.84016998	289.43	96.10534173
289.2096	98.83992985	289.5107	96.10386371
289.2928	98.83944959	289.599	96.10210857
289.3772	98.83896933	289.681	96.10026105
289.4611	98.83848907	289.7612	96.09804403
289.5426	98.83776868	289.8468	96.09591939
289.6306	98.83728842	289.9266	96.0939795
289.7127	98.83680815	290.0128	96.09240911
289.7945	98.83640794	290.0957	96.09111584
289.8775	98.83632789	290.1814	96.09000733
289.9617	98.83600772	290.2649	96.08871407
290.0431	98.83552746	290.3478	96.08686656
290.1248	98.83496715	290.424	96.08474191
290.2084	98.83440685	290.5116	96.08270964
290.2912	98.8337665	290.5967	96.08123163
290.3791	98.8332062	290.6794	96.08003074
290.4639	98.83272594	290.7659	96.07892223
290.5424	98.83240576	290.849	96.0779061
290.6246	98.83216563	290.928	96.07670521
290.711	98.83184546	291.013	96.07504245
290.795	98.83160533	291.0959	96.0729178
290.8785	98.83120511	291.1774	96.07060841
290.9574	98.83064481	291.26	96.06820663
291.0438	98.82992441	291.3412	96.06608199
291.1264	98.82928407	291.4292	96.06441922
291.2117	98.82872376	291.5122	96.06312596
291.2946	98.82840359	291.5924	96.06174032
291.3747	98.82808341	291.676	96.05998518
291.4615	98.8276832	291.7635	96.05804529
291.5443	98.82712289	291.8442	96.05582827
291.629	98.8264025	291.9289	96.05333412
291.7104	98.82576215	292.011	96.05102473
291.796	98.82528189	292.0935	96.04936196
291.8756	98.82496172	292.1772	96.04797632
291.9592	98.8245615	292.2606	96.04649831
292.0476	98.82424133	292.3432	96.04492792



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292.2142	98.82352094	292.5092	96.04132526
292.2972	98.82312072	292.5899	96.03910824
292.3812	98.82264046	292.6756	96.03679884
292.4639	98.82208015	292.7638	96.03532083
292.5492	98.82159989	292.8463	96.03421232
292.627	98.82111963	292.9258	96.03291906
292.7127	98.82071941	293.0092	96.03153342
292.7954	98.82055933	293.0913	96.03005541
292.8799	98.82039924	293.1745	96.02848502
292.9597	98.81999902	293.2599	96.0266375
293.0462	98.81935868	293.34	96.02478998
293.1272	98.81871833	293.4237	96.02257296
293.2154	98.81807798	293.5046	96.02044832
293.2951	98.81743763	293.5889	96.01832367
293.3803	98.81687733	293.6769	96.01638378
293.4611	98.81647711	293.7564	96.01481339
293.5445	98.81607689	293.8389	96.013243
293.6279	98.81559663	293.9238	96.01130311
293.7108	98.81503633	294.008	96.00927084
293.7946	98.81455607	294.0928	96.00686907
293.8775	98.81383568	294.1713	96.0044673
293.9633	98.81311528	294.2532	96.0025274
294.0422	98.81271507	294.3388	96.00086464
294.1286	98.81255498	294.423	95.99929425
294.212	98.81239489	294.5018	95.99790861
294.298	98.81207472	294.5883	95.99652297
294.3785	98.81159446	294.673	95.99476783
294.4639	98.81127428	294.7582	95.99255081
294.5466	98.81079402	294.8394	95.99005666
294.6279	98.81031376	294.9218	95.98774727
294.7101	98.80991355	295.0069	95.98580737
294.7938	98.80951333	295.0889	95.98423698
294.8791	98.80911311	295.1732	95.9830361
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295.0416	98.80839272	295.3374	95.98017245
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295.3794	98.80631159	295.6646	95.97176624
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295.7142	98.80423046	296.0037	95.96566944
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296.049	98.80206928	296.3372	95.95818699
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296.2156	98.80110876	296.5033	95.95458434
296.2971	98.80086863	296.5875	95.95301395
296.3819	98.80094868	296.6674	95.95162831
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298.719	98.78782154	299.0062	95.90017496
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299.2194	98.78413954	299.5029	95.89010599
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313.574	98.70881863	313.8399	95.58166302
313.6562	98.70849846	313.9243	95.57981551
313.739	98.70817828	314.009	95.57815274
313.8242	98.70777807	314.0906	95.57685948
313.9068	98.70705767	314.1765	95.5760281
313.9879	98.70641733	314.2573	95.57528909
314.074	98.70593707	314.3382	95.57436533
314.1537	98.7054568	314.4233	95.57288732
314.2412	98.70505659	314.5068	95.57131693
314.3264	98.70481646	314.5918	95.56909991
314.4111	98.70449628	314.6759	95.56660576
314.4938	98.70409606	314.7578	95.56438874
314.5768	98.70369585	314.8413	95.5626336
314.6592	98.70321559	314.9254	95.56078608
314.7408	98.70257524	315.0077	95.55893856
314.8202	98.70209498	315.0888	95.55699867
314.9065	98.7017748	315.1708	95.55505878
314.9902	98.70153467	315.2572	95.55293413
315.0754	98.70129454	315.3378	95.55034761
315.1577	98.70105441	315.4248	95.54785346
315.2426	98.7006542	315.512	95.54582119
315.3274	98.70025398	315.5913	95.54434318
315.4106	98.69977372	315.673	95.54323467

315.4962	98.69913337	315.7575	95.54212616
315.5767	98.69857306	315.8396	95.5408329
315.6604	98.69817285	315.923	95.53935488
315.7449	98.69777263	316.0071	95.53750737
315.8309	98.6975325	316.0885	95.53538272
315.9084	98.69729237	316.1736	95.53325808
315.9916	98.6969722	316.2562	95.53159531
316.0749	98.69665202	316.3392	95.53020967
316.1545	98.6962518	316.4216	95.52891641
316.242	98.69577154	316.5022	95.52762315
316.325	98.69537133	316.5882	95.52605276
316.4056	98.69497111	316.6707	95.52411287
316.488	98.69473098	316.7562	95.52189585
316.5744	98.69465093	316.8396	95.51967883
316.659	98.69425072	316.9242	95.51792369
316.741	98.6938505	317.0063	95.51644567
316.8235	98.6932902	317.0865	95.51487528
316.9107	98.69264985	317.1738	95.51358202
316.9916	98.6920095	317.2542	95.51228876
317.0766	98.69128911	317.3394	95.51062599
317.1601	98.69088889	317.4262	95.50859373
317.243	98.69056872	317.5042	95.50656146
317.3254	98.69024854	317.5874	95.50462156
317.4082	98.68984833	317.6733	95.5025893
317.4948	98.68936806	317.7566	95.50083415
317.5781	98.68880776	317.8389	95.49926376
317.6618	98.6883275	317.9198	95.49806288
317.7426	98.6877672	318.001	95.49686199
317.826	98.68728693	318.0851	95.4952916
317.9095	98.68712685	318.1699	95.49353646
317.9912	98.68688672	318.255	95.49159657
318.0757	98.68656654	318.34	95.48974905
318.1607	98.68616633	318.4216	95.48827104
318.2424	98.68560602	318.506	95.4872549
318.3248	98.68504572	318.5862	95.4865159
318.4113	98.68448541	318.676	95.48614639
318.4934	98.68376502	318.7546	95.48577689
318.5774	98.6833648	318.8373	95.48476076
318.6633	98.68328476	318.9238	95.48328274
318.7446	98.68312467	319.0081	95.48161998
318.826	98.68288454	319.0916	95.47986484
318.9091	98.68256437	319.1768	95.47838682
318.9935	98.68208411	319.2578	95.47690881
319.0738	98.68160385	319.3402	95.47552317
319.1593	98.68112359	319.4231	95.47432228
319.2442	98.68056328	319.5034	95.47256714
319.329	98.68032315	319.5869	95.46998062
319.4068	98.68008302	319.6706	95.46757885
319.493	98.67976285	319.7544	95.46536183
319.577	98.67936263	319.8396	95.46351431
319.658	98.67888237	319.921	95.46212867
319.7394	98.67832206	320.0024	95.46102016
319.8284	98.67792185	320.0866	95.46037353
319.9114	98.67736154	320.1717	95.45963452
319.9936	98.67704137	320.2566	95.45843364
320.0772	98.67680124	320.3416	95.45723275

320.1629	98.67664115	320.4236	95.45640137
320.2456	98.67648106	320.5059	95.45510811
320.3283	98.67624093	320.5891	95.45353772
320.4118	98.67592076	320.6754	95.4520597
320.4975	98.67552054	320.7546	95.45076644
320.5813	98.67480015	320.8386	95.44947318
320.6604	98.67399972	320.9226	95.44781042
320.746	98.67343941	321.0066	95.44605527
320.8282	98.67303919	321.0898	95.44420776
320.9152	98.67271902	321.1723	95.44180598
320.9945	98.67247889	321.2588	95.43894233
321.0803	98.67215872	321.3431	95.43672531
321.16	98.67167846	321.4246	95.4352473
321.2436	98.67103811	321.5043	95.43404641
321.3291	98.6704778	321.5882	95.43303028
321.4099	98.67015763	321.668	95.43201414
321.4944	98.66999754	321.7559	95.43081326
321.5786	98.66975741	321.8376	95.42924287
321.6656	98.66935719	321.9188	95.42739535
321.7395	98.66903702	321.9977	95.42554783
321.8264	98.66855676	322.0861	95.42406982
321.9102	98.66815654	322.1705	95.42286894
321.9984	98.66751619	322.2524	95.4214833
322.0796	98.66703593	322.3358	95.42037479
322.161	98.66655567	322.4184	95.41926628
322.2463	98.66599537	322.4968	95.41778826
322.3272	98.66551511	322.584	95.41603312
322.4097	98.66535502	322.6677	95.41437036
322.494	98.66535502	322.7534	95.41261522
322.5803	98.66503485	322.8355	95.41141433
322.6614	98.66447454	322.9181	95.41095245
322.7473	98.66383419	323.0023	95.4107677
322.8281	98.66327389	323.0834	95.41021344
322.9116	98.66287367	323.1676	95.40910493
322.9972	98.66263354	323.2515	95.40753454
323.0797	98.66239341	323.3358	95.40587178
323.159	98.66207324	323.4191	95.40402426
323.2446	98.66175306	323.5015	95.40217674
323.3275	98.66143289	323.5884	95.40088348
323.4097	98.66095263	323.6688	95.39977497
323.4969	98.66031228	323.7519	95.39811221
323.577	98.65975198	323.8375	95.39626469
323.6596	98.6594318	323.9168	95.3946943
323.7448	98.65911163	323.9996	95.39312391
323.8281	98.65871141	324.0842	95.39146115
323.9132	98.65871141	324.1661	95.38952125
323.9938	98.65863137	324.252	95.38776611
324.0805	98.65823115	324.3387	95.38638047
324.1594	98.65743072	324.4211	95.38527196
324.2422	98.65663028	324.506	95.38416345
324.3256	98.65615002	324.5891	95.38305494
324.4106	98.65566976	324.6685	95.38176168
324.4888	98.65526954	324.7556	95.38037604
324.5771	98.65486933	324.8361	95.37880565
324.6589	98.65470924	324.919	95.37723526
324.7424	98.65414893	325.0042	95.375942

324.8256	98.65342854	325.0872	95.37483349
324.9068	98.65278819	325.173	95.37381736
324.9944	98.65230793	325.2546	95.37280122
325.076	98.65190772	325.335	95.37178509
325.1627	98.65166759	325.4192	95.37067658
325.2444	98.65158754	325.5041	95.36947569
325.328	98.6515075	325.5885	95.36799768
325.4096	98.65142746	325.676	95.36633491
325.4929	98.65102724	325.7598	95.36467215
325.5748	98.65062702	325.8411	95.36337889
325.66	98.6502268	325.9224	95.36236275
325.7448	98.64982659	326.0041	95.36143899
325.8284	98.64942637	326.0877	95.36042286
325.9088	98.64910619	326.1714	95.35903722
325.9928	98.64894611	326.2555	95.35737446
326.0766	98.64878602	326.3365	95.35580407
326.1592	98.6483858	326.4224	95.35395655
326.241	98.64798559	326.504	95.35229378
326.3261	98.64758537	326.59	95.35127765
326.41	98.64694502	326.6735	95.35053864
326.4915	98.64622463	326.7544	95.34961489
326.5758	98.64566432	326.8383	95.3487835
326.6582	98.64542419	326.921	95.34776737
326.7422	98.64526411	327.0027	95.34647411
326.8254	98.64494393	327.09	95.34508847
326.9078	98.6447038	327.1714	95.3434257
326.9944	98.6441435	327.257	95.34213244
327.0779	98.64366324	327.3402	95.34130106
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327.2451	98.64270272	327.5048	95.33973067
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327.4092	98.64254263	327.673	95.33779078
327.4938	98.64262267	327.7579	95.33686702
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327.6579	98.64238254	327.924	95.33409574
327.7433	98.64206237	328.0093	95.33280248
327.826	98.64174219	328.0906	95.33169397
327.9067	98.64126193	328.1714	95.33077021
327.993	98.64078167	328.259	95.3296617
328.0781	98.6404615	328.3421	95.32846082
328.1594	98.64030141	328.4246	95.32707518
328.2445	98.64014132	328.5089	95.32541241
328.3278	98.63974111	328.5907	95.32319539
328.4094	98.6391808	328.6715	95.3212555
328.4926	98.63854046	328.7525	95.31977749
328.5793	98.63790011	328.8363	95.31913085
328.6597	98.63717972	328.919	95.3185766
328.7434	98.63661941	329.0046	95.31783759
328.8254	98.63637928	329.09	95.31682146
328.9108	98.63621919	329.1733	95.31571295
328.9912	98.63605911	329.254	95.31432731
329.0733	98.63565889	329.3406	95.31275692
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329.244	98.63485846	329.5049	95.31026277
329.327	98.63437819	329.5878	95.30943139
329.4105	98.63389793	329.6699	95.30850763



329.4934	98.63349772	329.754	95.30758387
329.578	98.63325759	329.838	95.30666011
329.6611	98.63301746	329.9233	95.30536685
329.743	98.63269728	330.0067	95.30370409
329.8268	98.63237711	330.085	95.30204132
329.9095	98.63197689	330.174	95.30065568
329.9922	98.63133654	330.2562	95.29954717
330.0804	98.63069619	330.3402	95.29871579
330.1576	98.63021593	330.4219	95.29788441
330.244	98.6299758	330.5058	95.29705303
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330.4944	98.62981572	330.758	95.29271136
330.5767	98.62949554	330.8413	95.2914181
330.6611	98.62901528	330.9209	95.29003246
330.7444	98.62837493	331.005	95.2891087
330.8275	98.62789467	331.089	95.28855445
330.9115	98.62765454	331.1728	95.28800019
330.9948	98.62749445	331.2562	95.28716881
331.0771	98.62733437	331.3416	95.2860603
331.1614	98.62709424	331.4241	95.28467466
331.2486	98.62693415	331.5066	95.28328902
331.327	98.62653393	331.5864	95.28199576
331.411	98.62605367	331.6726	95.28097963
331.4958	98.62541332	331.7541	95.28005587
331.5771	98.62493306	331.8383	95.27922449
331.6598	98.62453285	331.921	95.27830073
331.7454	98.62429272	332.0075	95.27728459
331.8312	98.62405259	332.0891	95.27626846
331.9119	98.62365237	332.1725	95.27469807
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332.1634	98.62213154	332.4224	95.27007928
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332.4944	98.62029054	332.7534	95.26684612
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332.662	98.61973024	332.9242	95.26407485
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332.9136	98.61876972	333.1713	95.26093407
332.9955	98.61820941	333.2531	95.26001031
333.0795	98.61756906	333.335	95.25917893
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333.3306	98.61716885	333.588	95.25668478
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333.5822	98.61596819	333.8391	95.25326687
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333.8332	98.61452741	334.0906	95.25132698
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334.8309	98.61060528	335.0889	95.24098088
334.9128	98.61036515	335.175	95.24005713
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336.748	98.60156037	337.011	95.21594703
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337.577	98.59803845	337.8484	95.20717132
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337.7475	98.59803845	338.0143	95.20486193
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338.6625	98.59403628	338.926	95.19368445
338.747	98.59339593	339.01	95.19257594

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342.0837	98.5784278	342.3482	95.15784262
342.1648	98.57818767	342.4335	95.15673411
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342.5826	98.57546619	342.8466	95.15645698
342.668	98.57490589	342.9305	95.1559951
342.7502	98.57450567	343.0138	95.15525609
342.835	98.57434558	343.0968	95.15451709
342.9168	98.57426554	343.1788	95.15340858
343.0043	98.57402541	343.264	95.15211531
343.0847	98.57338506	343.3472	95.1506373
343.1661	98.57258463	343.4265	95.14897454
343.2481	98.57194428	343.5113	95.14740415
343.3313	98.57162411	343.5982	95.14601851
343.4189	98.57162411	343.6839	95.14509475

343.502	98.57162411	343.7616	95.14426337
343.5842	98.57162411	343.8472	95.14297011
343.6684	98.57138398	343.9315	95.14149209
343.752	98.57098376	344.0158	95.14019883
343.8361	98.57058354	344.1	95.13936745
343.9193	98.57010328	344.1809	95.13853606
343.999	98.56962302	344.2647	95.13788943
344.0852	98.56906271	344.3491	95.13733518
344.169	98.5686625	344.4332	95.13678092
344.256	98.56826228	344.5202	95.13585716
344.3362	98.56794211	344.6031	95.13474865
344.419	98.56746185	344.6805	95.13354777
344.501	98.56706163	344.7616	95.13262401
344.5865	98.56642128	344.8434	95.13170025
344.666	98.56562085	344.9268	95.13105362
344.7536	98.56506054	345.0107	95.13077649
344.8358	98.56466032	345.0964	95.13040699
344.918	98.56434015	345.1846	95.12976036
345.0024	98.56401998	345.2632	95.12892898
345.0873	98.5636998	345.3474	95.12782047
345.1672	98.56345967	345.4301	95.12661958
345.2528	98.56321954	345.5148	95.12569582
345.3395	98.56265924	345.5983	95.12486444
345.422	98.56193885	345.682	95.12431018
345.5042	98.56145858	345.7665	95.12403306
345.5862	98.56089828	345.8511	95.12375593
345.6666	98.56033798	345.928	95.1231093
345.7558	98.56009785	346.0148	95.12218554
345.8388	98.55985771	346.0954	95.1207999
345.9213	98.55961758	346.1802	95.11932189
346.0071	98.55921737	346.2644	95.11821338
346.0885	98.55857702	346.3502	95.11728962
346.1698	98.55793667	346.4352	95.11682774
346.2538	98.55737637	346.5152	95.11645824
346.3362	98.55689611	346.5978	95.11590398
346.4191	98.55665598	346.6801	95.1150726
346.5026	98.55665598	346.765	95.11377934
346.5855	98.55641585	346.8512	95.11257845
346.6688	98.55617571	346.9319	95.11165469
346.7539	98.55569545	347.0162	95.11082331
346.8362	98.55513515	347.0961	95.11017668
346.9204	98.55433471	347.1817	95.10999193
347.0059	98.55377441	347.264	95.1097148
347.086	98.55337419	347.35	95.10925292
347.1733	98.55313406	347.4303	95.10842154
347.2554	98.55297398	347.513	95.10731303
347.3386	98.55257376	347.5964	95.10629689
347.4226	98.55225358	347.6819	95.10509601
347.5034	98.55177332	347.7646	95.10407987
347.5864	98.55113298	347.8489	95.10361799
347.6689	98.55033254	347.933	95.10343324
347.7544	98.54993232	348.0156	95.10297136
347.836	98.54985228	348.0989	95.10223235
347.9195	98.54993232	348.1804	95.1013086
347.9998	98.54985228	348.2668	95.10001533
348.083	98.54953211	348.3506	95.09890682

348.1662	98.54913189	348.43	95.09789069
348.2491	98.54857158	348.5156	95.09715168
348.3353	98.54785119	348.5987	95.0966898
348.4166	98.54729089	348.6826	95.0963203
348.504	98.54689067	348.7664	95.09576605
348.5878	98.54649045	348.8464	95.09502704
348.6692	98.54617028	348.9276	95.0940109
348.7537	98.54585011	349.0137	95.09299477
348.8369	98.54520976	349.0968	95.09216339
348.9198	98.5447295	349.1811	95.09114725
349.0006	98.54424924	349.2652	95.09040825
349.0817	98.54360889	349.3484	95.09013112
349.1705	98.54304858	349.4316	95.08994637
349.2514	98.54256832	349.5176	95.08948449
349.3336	98.54224815	349.5952	95.08874548
349.4179	98.54200802	349.6828	95.0879141
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349.5842	98.5416078	349.8489	95.08643608
349.665	98.54120758	349.932	95.0856047
349.7516	98.54056724	350.017	95.08551233
349.8331	98.5397668	350.0965	95.08588183
349.9195	98.5392065	350.1819	95.08615896
349.9998	98.53880628	350.2648	95.08578945
350.085	98.53848611	350.3462	95.08505045
350.1662	98.53840606	350.4304	95.08394194
350.2482	98.53832602	350.5149	95.08274105
350.3344	98.53768567	350.5992	95.08126304
350.4207	98.53704532	350.6766	95.08006215
350.5052	98.53640498	350.761	95.07969265
350.5869	98.53584467	350.848	95.07941552
350.6704	98.53536441	350.9316	95.07867651
350.7538	98.53504424	351.0156	95.077568
350.8341	98.53480411	351.0981	95.07636712
350.9202	98.53472406	351.1834	95.07507385
351.0037	98.53432384	351.2655	95.0741501
351.0862	98.5336835	351.3475	95.07341109
351.1687	98.53320324	351.4326	95.07267208
351.2533	98.53272298	351.5155	95.07211783
351.3387	98.53216267	351.5984	95.0714712
351.4184	98.53176245	351.6799	95.07063981
351.5026	98.53168241	351.765	95.06971606
351.5843	98.53160237	351.8496	95.0687923
351.6674	98.53144228	351.9313	95.06777616
351.7532	98.53112211	352.0178	95.06676003
351.8366	98.53072189	352.1018	95.06546677
351.9196	98.53048176	352.1832	95.06454301
352.0041	98.53008154	352.2684	95.06408113
352.085	98.52960128	352.35	95.063804
352.169	98.52920106	352.4329	95.06361925
352.2519	98.52888089	352.5203	95.06306499
352.337	98.52856071	352.6034	95.06232599
352.421	98.52808045	352.6843	95.06121748
352.5028	98.52760019	352.7672	95.06001659
352.5859	98.52711993	352.8496	95.05909283
352.6696	98.52663967	352.9356	95.05853858
352.7532	98.52591928	353.0156	95.0584462

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352.9195	98.52471863	353.1872	95.05835383
353.004	98.52431841	353.271	95.05770719
353.0921	98.52407828	353.3541	95.05687581
353.1726	98.52391819	353.4361	95.05585968
353.254	98.52351797	353.5188	95.05493592
353.3359	98.52287763	353.6032	95.05428929
353.4194	98.52223728	353.6835	95.05364266
353.5056	98.52159693	353.767	95.05327315
353.5895	98.52095658	353.8515	95.05281127
353.6719	98.52039628	353.9373	95.05216464
353.7554	98.52015615	354.0174	95.05161039
353.841	98.51991602	354.1038	95.05096376
353.9242	98.51943576	354.1856	95.05004
354.007	98.5189555	354.2706	95.04883911
354.0875	98.51863532	354.3506	95.04800773
354.1706	98.51831515	354.4388	95.04763823
354.2536	98.51775484	354.5168	95.04763823
354.3378	98.51727458	354.6033	95.0477306
354.4203	98.51703445	354.687	95.04745347
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354.5898	98.51663424	354.8514	95.0450517
354.6724	98.51647415	354.9346	95.04338894
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354.9238	98.51479324	355.188	95.04034053
355.003	98.5139928	355.2719	95.03978628
355.087	98.51351254	355.3525	95.03923202
355.1716	98.51319237	355.4399	95.03867777
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355.3351	98.51247197	355.6012	95.037015
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355.5878	98.51119128	355.8555	95.03461323
355.6717	98.51071102	355.9332	95.03461323
355.7564	98.51023076	356.0195	95.03442848
355.8393	98.5097505	356.1048	95.0343361
355.9191	98.50935028	356.1856	95.03378185
356.0028	98.50895006	356.2704	95.03276571
356.0855	98.50878997	356.3537	95.0316572
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356.2547	98.50822967	356.5211	95.02962494
356.3342	98.50750928	356.6028	95.02888593
356.4195	98.50694897	356.6865	95.02842405
356.5042	98.50638867	356.7696	95.02796217
356.588	98.50574832	356.8531	95.02786979
356.6678	98.50526806	356.9352	95.02731554
356.7508	98.50494789	357.0237	95.0262994
356.8356	98.5047878	357.1045	95.02519089
356.9191	98.50438758	357.1889	95.02408238
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357.0862	98.50334702	357.3528	95.02241962
357.1656	98.50278671	357.4415	95.02223487
357.2512	98.50214637	357.5258	95.02214249
357.3352	98.50158606	357.6075	95.02195774
357.4199	98.50142597	357.6902	95.02112636

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357.6696	98.50078563	357.9425	95.01844746
357.7562	98.50030537	358.0245	95.01761607
357.8365	98.49974506	358.106	95.01733895
357.9213	98.49918476	358.189	95.01724657
358.0022	98.49862445	358.273	95.01706182
358.087	98.49830428	358.3574	95.01659994
358.171	98.49814419	358.4416	95.01604569
358.2551	98.4979841	358.5229	95.01512193
358.338	98.49766393	358.61	95.01401342
358.4214	98.49734376	358.6935	95.01290491
358.5028	98.4968635	358.7755	95.01225828
358.5851	98.49606306	358.8581	95.0117964
358.6694	98.49526263	358.9426	95.01142689
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358.8367	98.49462228	359.1098	95.01059551
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359.0044	98.49406197	359.2783	95.00865562
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359.3358	98.4919008	359.6102	95.0068081
359.42	98.4913405	359.6959	95.00699285
359.505	98.49110037	359.7792	95.0068081
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359.6692	98.49037997	359.9439	95.00569959
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361.1713	98.48421663	361.4425	94.99378311
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361.4212	98.4826958	361.6925	94.9903652
361.5055	98.48197541	361.7715	94.98981094
361.5867	98.48125502	361.8571	94.98962619
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361.754	98.48037454	362.0248	94.98934906
361.837	98.47997432	362.1098	94.98861006
361.9218	98.47965415	362.1898	94.98759392
362.0031	98.47933397	362.2736	94.98657779
362.0868	98.47893376	362.359	94.98546928

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362.7551	98.47613224	363.0209	94.98158949
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362.9239	98.47509167	363.1899	94.97992673
363.0076	98.47445132	363.2766	94.97983435
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368.7556	98.44523545	369.0305	94.94168312
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369.0067	98.44379467	369.2808	94.94131362
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369.1729	98.44331441	369.4464	94.94020511
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369.4239	98.4421938	369.6951	94.93697196
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369.7556	98.44059293	370.0306	94.93530919
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371.5084	98.43106776	371.7812	94.92348508
371.5889	98.4305875	371.8632	94.92246895
371.6748	98.43018728	371.9444	94.92163757
371.7584	98.42954693	372.0293	94.92117569
371.8395	98.42890658	372.1136	94.92126806
371.9211	98.42850636	372.1972	94.92182232
372.0035	98.42810615	372.2794	94.92200707
372.0913	98.42794606	372.3609	94.92182232
372.1714	98.42794606	372.4466	94.92117569
372.2575	98.42754584	372.529	94.92025193
372.3387	98.42706558	372.6114	94.91942054
372.4261	98.42642523	372.6964	94.91877391
372.5092	98.42578489	372.7795	94.91858916
372.5891	98.42538467	372.86	94.91858916
372.6748	98.42514454	372.9433	94.91831203
372.7569	98.42474432	373.0287	94.9176654
372.8416	98.42458423	373.1093	94.9169264
372.9258	98.4243441	373.1953	94.91591026
373.0075	98.4237838	373.2831	94.9149865
373.0894	98.4232235	373.365	94.9142475
373.172	98.42266319	373.4461	94.91360087
373.2593	98.42202284	373.5306	94.91323136
373.341	98.42138249	373.6139	94.91286186
373.424	98.42090223	373.6992	94.91258473
373.505	98.42058206	373.7822	94.91239998
373.5922	98.42050202	373.8615	94.9119381
373.673	98.42018184	373.9447	94.91110672
373.7584	98.41962154	374.0311	94.91018296
373.8382	98.41906123	374.1131	94.90916683
373.9217	98.41858097	374.1992	94.90852019
374.0067	98.41802067	374.2788	94.90815069
374.0891	98.41754041	374.364	94.90787356
374.1724	98.41722023	374.4443	94.90768881
374.2585	98.41706015	374.5259	94.90741168
374.3406	98.4169801	374.6128	94.9069498
374.4248	98.41682002	374.6967	94.9062108
374.509	98.4164198	374.7828	94.90537942
374.5902	98.41601958	374.8629	94.90464041
374.6713	98.41537923	374.9488	94.90417853
374.755	98.41473889	375.0281	94.90408615
374.8398	98.41433867	375.112	94.90408615
374.922	98.41409854	375.1953	94.90427091
375.0044	98.41393845	375.2783	94.90408615
375.0912	98.41369832	375.3626	94.90343952
375.1756	98.4132981	375.4466	94.90242339
375.2572	98.41265776	375.5274	94.90131488
375.3383	98.41201741	375.6112	94.9004835
375.4244	98.41137706	375.691	94.89992924
375.51	98.41105689	375.7762	94.89983686
375.5902	98.41073671	375.8655	94.90002162
375.6746	98.41049658	375.9429	94.90020637
375.7585	98.41041654	376.0292	94.90020637
375.8396	98.41009636	376.114	94.90002162
375.9244	98.40969615	376.1952	94.89946736
376.0074	98.40897576	376.279	94.89882073
376.095	98.40825536	376.3614	94.89826647

376.1772	98.40753497	376.4447	94.8978046
376.257	98.40689463	376.525	94.89743509
376.3418	98.40633432	376.6131	94.89706559
376.4235	98.40601415	376.6972	94.89623421
376.507	98.40577402	376.7802	94.89531045
376.5955	98.40529376	376.863	94.89420194
376.6754	98.40497358	376.9448	94.89327818
376.7579	98.40433323	377.0276	94.89226204
376.8407	98.40369289	377.1114	94.89143066
376.9273	98.40321263	377.1937	94.89115353
377.0116	98.40281241	377.2774	94.89124591
377.0963	98.40241219	377.3618	94.89143066
377.1761	98.40217206	377.4485	94.89161541
377.258	98.40193193	377.5306	94.89161541
377.3402	98.40153171	377.6112	94.89133829
377.4254	98.40097141	377.6975	94.89087641
377.507	98.40033106	377.7789	94.88986027
377.5912	98.3998508	377.8635	94.88912127
377.6758	98.39945058	377.9464	94.88884414
377.7575	98.39905036	378.0286	94.88828988
377.8418	98.39889028	378.111	94.88773563
377.9257	98.39889028	378.1964	94.8874585
378.008	98.3985701	378.279	94.88681187
378.092	98.39816989	378.3628	94.88607286
378.1736	98.39776967	378.4465	94.8851491
378.2583	98.39728941	378.5307	94.88394822
378.3424	98.3967291	378.6155	94.88320921
378.4276	98.3961688	378.6956	94.88256258
378.5096	98.39576858	378.7805	94.88219308
378.592	98.39544841	378.8625	94.88219308
378.6753	98.39504819	378.9454	94.88219308
378.76	98.39472802	379.0263	94.88182357
378.8406	98.39448789	379.1137	94.88117694
378.9275	98.39384754	379.1946	94.88025318
379.0088	98.39336728	379.2753	94.8794218
379.093	98.39272693	379.363	94.87877517
379.1752	98.39216662	379.4465	94.87831329
379.26	98.39184645	379.5268	94.87812854
379.3453	98.39136619	379.6137	94.87812854
379.426	98.39096597	379.6958	94.87794379
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379.5943	98.38992541	379.8638	94.87683528
379.6737	98.3893651	379.946	94.87609627
379.7608	98.38872476	380.0299	94.87535726
379.8442	98.38784428	380.114	94.87452588
379.9279	98.38728397	380.196	94.87415638
380.0111	98.3869638	380.2776	94.874064
380.0967	98.38664362	380.3619	94.874064
380.1789	98.38648354	380.4468	94.87387925
380.2599	98.38632345	380.528	94.87360212
380.3462	98.38584319	380.6106	94.87295549
380.4304	98.38520284	380.696	94.87230886
380.5111	98.38456249	380.7814	94.87156985
380.5921	98.38408223	380.8628	94.87092322
380.6776	98.38368202	380.95	94.87055372
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381.095	98.3814408	381.3609	94.8687062
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381.2588	98.38032019	381.5266	94.86667393
381.3394	98.37975989	381.6116	94.8660273
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381.6744	98.37887941	381.9453	94.86584255
381.7588	98.37855923	382.0278	94.8656578
381.839	98.37791889	382.1116	94.86538067
381.9226	98.37735858	382.197	94.86473404
382.0045	98.37687832	382.2804	94.86408741
382.0909	98.37631802	382.3611	94.86353315
382.1728	98.37575771	382.447	94.8633484
382.2587	98.37543754	382.5297	94.86316365
382.3409	98.37535749	382.615	94.8629789
382.4221	98.37511736	382.6956	94.8626094
382.507	98.37471715	382.783	94.86223989
382.5899	98.37415684	382.8607	94.86150089
382.6744	98.37383667	382.945	94.86048475
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383.0045	98.37255597	383.2813	94.85854486
383.0852	98.37231584	383.3613	94.85909911
383.1704	98.37167549	383.4441	94.8599305
383.2552	98.37111519	383.5275	94.86002287
383.3378	98.37055489	383.6094	94.85928387
383.4225	98.36991454	383.6988	94.85845248
383.502	98.36927419	383.7792	94.85780585
383.588	98.36871389	383.8602	94.85734397
383.6698	98.36823362	383.9444	94.85706685
383.7542	98.36783341	384.0275	94.85688209
383.8375	98.36743319	384.1102	94.85688209
383.9208	98.36719306	384.1959	94.85605071
384.005	98.36695293	384.2816	94.8545727
384.0859	98.36655271	384.3648	94.85327944
384.1705	98.36591236	384.449	94.85217092
384.2526	98.3654321	384.53	94.85124717
384.3378	98.36503189	384.6125	94.85069291
384.4233	98.3648718	384.6967	94.85050816
384.5056	98.3648718	384.7813	94.85069291
384.5863	98.36479175	384.8662	94.85078529
384.668	98.36447158	384.95	94.85041578
384.7519	98.36399132	385.0337	94.8499539
384.8334	98.36335097	385.115	94.84949203
384.9182	98.36271062	385.1992	94.84903015
385.0005	98.36223036	385.2807	94.84875302
385.0805	98.36167006	385.3668	94.84838351
385.1685	98.36126984	385.4496	94.84810639
385.25	98.36086962	385.5335	94.84810639
385.334	98.36054945	385.6161	94.84810639
385.4198	98.3599091	385.7012	94.84782926

385.5016	98.35926875	385.7816	94.84718263
385.584 9	8.35878849	385.8654	94.84625887
385.6674	98.35822819	385.9476	94.84496561
385.7511	98.35774793	386.0322	94.8438571
385.8342	98.35758784	386.1171	94.84311809
385.9176	98.35734771	386.198	94.84293334
386.0004	98.35718762	386.2817	94.84302572
386.0863	98.35686745	386.3645	94.84293334
386.1722	98.35638719	386.4487	94.84237908
386.2531	98.35614706	386.5335	94.8415477
386.3366	98.35582689	386.6165	94.84043919
386.4148	98.35518654	386.6994	94.83951543
386.5012	98.35454619	386.7841	94.83896118
386.5858	98.35414597	386.8674	94.83859167
386.668	98.3538258	386.9479	94.83859167
386.7518	98.35374575	387.0331	94.83877643
386.8318	98.35350562	387.1172	94.83868405
386.919	98.35310541	387.1996	94.83822217
386.9996	98.35262515	387.282	94.83739079
387.0833	98.35190475	387.3668	94.83646703
387.1652	98.35126441	387.4544	94.83572802
387.251	98.3507041	387.5366	94.83535852
387.3328	98.35038393	387.6168	94.83508139
387.4138	98.35022384	387.7009	94.83535852
387.4988	98.34990367	387.7853	94.83572802
387.5798	98.34950345	387.87	94.83563565
387.665	98.34902319	387.9572	94.83508139
387.7478	98.34862297	388.0366	94.83425001
387.8322	98.34806267	388.1174	94.83360338
387.9176	98.34750236	388.2028	94.83295675
388	98.3470221	388.2867	94.83249487
388.0819	98.3470221	388.3717	94.83212537
388.1654	98.3470221	388.4527	94.83212537
388.2489	98.34686202	388.5372	94.83212537
388.3322	98.3464618	388.617	94.83157111
388.4199	98.34598154	388.7009	94.8308321
388.4973	98.34550128	388.7837	94.8300931
388.5798	98.34486093	388.869	94.82944647
388.6648	98.34414054	388.9536	94.82870746
388.7488	98.34350019	389.0371	94.8281532
388.8342	98.34318002	389.1225	94.82787608
388.9164	98.3427798	389.204	94.82796845
389.001	98.34237958	389.2855	94.82806083
389.0822	98.34189932	389.3718	94.82759895
389.1648	98.3414991	389.4544	94.82676757
389.2487	98.34101884	389.5392	94.82602856
389.3332	98.34029845	389.6192	94.82538193
389.415	98.33973815	389.7012	94.82445817
389.5002	98.33957806	389.7857	94.82390391
389.581	98.33949802	389.8728	94.82381154
389.6683	98.33917784	389.9576	94.82408867
389.7502	98.33893771	390.036	94.82418104
389.8348	98.33861754	390.1206	94.82362679
389.9164	98.33805723	390.2035	94.82316491
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390.0828	98.33677654	390.3694	94.82177927

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390.2518	98.3359761	390.5384	94.82085551
390.3318	98.33557588	390.6208	94.82085551
390.4163	98.3354158	390.7074	94.82094789
390.5004	98.3354158	390.7898	94.82085551
390.588	98.33509562	390.8709	94.82039363
390.6684	98.33445528	390.9558	94.81993175
390.7475	98.33389497	391.0352	94.81919275
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391.0862	98.33197393	391.3688	94.81725285
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391.2495	98.33165375	391.5365	94.81734523
391.3314	98.33093336	391.6196	94.8170681
391.416	98.3304531	391.7024	94.81651385
391.5026	98.3298928	391.7874	94.81559009
391.5848	98.32941254	391.8706	94.81448158
391.6681	98.32909236	391.9532	94.81374257
391.7514	98.32877219	392.0381	94.81337307
391.835	98.32869215	392.1204	94.81328069
391.9186	98.3286121	392.2038	94.81337307
392.0028	98.32813184	392.2884	94.81328069
392.0828	98.32749149	392.3734	94.81281881
392.1671	98.32693119	392.4527	94.81189505
392.254	98.32613075	392.5384	94.8109713
392.3344	98.32557045	392.6189	94.81023229
392.4179	98.32501015	392.7062	94.81004754
392.5005	98.32444984	392.7855	94.81013991
392.584	98.32412967	392.8667	94.81023229
392.6708	98.32372945	392.9554	94.8109713
392.7488	98.32340928	393.0388	94.81152555
392.8352	98.32300906	393.12	94.81161793
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393.0832	98.32188845	393.3717	94.80977041
393.1656	98.32148823	393.4566	94.80921615
393.2483	98.3212481	393.537	94.80893903
393.3328	98.32116806	393.6225	94.8090314
393.4165	98.32092793	393.7074	94.80893903
393.4996	98.32052771	393.7888	94.80801527
393.5815	98.32012749	393.8715	94.80662963
393.6662	98.31948715	393.952	94.80552112
393.749	98.31876675	394.0362	94.80459736
393.8322	98.31796632	394.1215	94.80376598
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394.0008	98.31708584	394.2878	94.80321172
394.0828	98.31692575	394.3735	94.80311935
394.1684	98.31668562	394.4552	94.80311935
394.2507	98.31644549	394.539	94.80311935
394.3354	98.31604528	394.6216	94.80265747
394.4178	98.31540493	394.7012	94.80191846
394.4978	98.31468454	394.786	94.80090233
394.58	98.31412423	394.8687	94.80007094
394.6612	98.31380406	394.9531	94.79970144
394.7486	98.31364397	395.0364	94.79960907

394.8306	98.31356393	395.1191	94.79970144
394.9188	98.31316371	395.202	94.79988619
394.9962	98.31260341	395.2826	94.79970144
395.0807	98.31212315	395.3691	94.79887006
395.1634	98.31140275	395.4551	94.7979463
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395.328	98.31012206	395.6206	94.79665304
395.4134	98.30980188	395.7022	94.79637591
395.4968	98.3096418	395.7878	94.79628353
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395.664	98.30948171	395.9588	94.79637591
395.7456	98.30900145	396.0386	94.79591403
395.8309	98.3083611	396.1217	94.79554453
395.9116	98.30756067	396.2044	94.7952674
395.9988	98.30692032	396.2889	94.79480552
396.0799	98.30660015	396.3744	94.79434364
396.1638	98.3065201	396.4548	94.79406651
396.245	98.30660015	396.5372	94.79397414
396.3325	98.30660015	396.6198	94.79406651
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396.9114	98.30323832	397.2015	94.79046386
396.9963	98.3028381	397.2851	94.79074098
397.0792	98.30243788	397.3694	94.79083336
397.1644	98.30187758	397.4512	94.79092574
397.2472	98.30123723	397.534	94.79055623
397.3294	98.30051684	397.6195	94.78972485
397.4123	98.29987649	397.7038	94.78880109
397.4934	98.29955632	397.7887	94.78787733
397.5812	98.29931619	397.8725	94.78732308
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397.7461	98.29875588	398.0388	94.78639932
397.8318	98.29867584	398.1201	94.78639932
397.9141	98.29811554	398.2034	94.78630694
397.9964	98.29739515	398.2868	94.78584506
398.0783	98.29667475	398.3705	94.78501368
398.1612	98.29611445	398.4525	94.78408992
398.2483	98.29563419	398.5364	94.78325854
398.3295	98.29531401	398.6203	94.78270428
398.4111	98.29523397	398.7041	94.78270428
398.4951	98.29523397	398.7883	94.78288904
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398.746	98.29347301	399.04	94.78215003
398.8301	98.29267258	399.1219	94.78131865
398.9064	98.29211228	399.2046	94.78039489
398.994	98.2917921	399.286	94.77974826
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399.1618	98.2912318	399.4535	94.77965588
399.2444	98.29075154	399.5403	94.77965588
399.3282	98.29011119	399.6217	94.77974826
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399.7467	98.28843028	400.0398	94.77660748
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400.501	98.28514849	400.7868	94.7734667
400.5847	98.28474828	400.8734	94.77337432
400.6652	98.28434806	400.9543	94.7734667
400.7498	98.28402788	401.0391	94.77355908
400.835	98.28354762	401.126	94.77337432
400.9145	98.28282723	401.2097	94.77291244
400.9976	98.28210684	401.2922	94.77226581
401.0835	98.28162658	401.3748	94.77152681
401.166	98.28138645	401.4575	94.77097255
401.2502	98.28106628	401.5425	94.7704183
401.3324	98.28082614	401.6227	94.77004879
401.4156	98.28066606	401.7109	94.77004879
401.4995	98.28026584	401.7917	94.76995642
401.584	98.27970554	401.8769	94.76967929
401.665	98.27898514	401.9589	94.76940216
401.751	98.27818471	402.0414	94.76857078
401.8345	98.27762441	402.1274	94.76764702
401.9174	98.27730423	402.2108	94.76672326
401.9994	98.27698406	402.2906	94.76616901
402.0831	98.27674393	402.3794	94.76626138
402.1669	98.27658384	402.4611	94.76635376
402.2482	98.27618362	402.5456	94.76635376
402.3329	98.27546323	402.6262	94.76626138
402.4188	98.2746628	402.7098	94.76589188
402.4994	98.27402245	402.7912	94.7650605
402.5848	98.27378232	402.8752	94.76422911
402.6641	98.27370228	402.9628	94.76358248
402.7488	98.27354219	403.0463	94.76321298
402.8339	98.2733821	403.1304	94.7631206
402.916	98.27298188	403.215	94.7631206
403.0022	98.27226149	403.295	94.76321298
403.0878	98.27170119	403.3857	94.76302823
403.1652	98.27122093	403.4664	94.7623816
403.2512	98.27074067	403.55	94.76164259
403.3319	98.27042049	403.6328	94.76081121
403.418	98.27026041	403.7144	94.76016458
403.5006	98.27026041	403.7992	94.75997983
403.5867	98.26994023	403.8836	94.7600722
403.6674	98.26954001	403.9692	94.7600722
403.75	98.26905975	404.049	94.75997983
403.8371	98.26841941	404.1294	94.7597027
403.9187	98.26769901	404.2146	94.75905607
404.0004	98.26705867	404.299	94.75803993
404.089	98.26673849	404.3804	94.75720855



404.1694	98.26665845	404.4628	94.75665429
404.2558	98.26657841	404.551	94.75637717
404.3386	98.26625823	404.6308	94.75637717
404.4202	98.26585801	404.712	94.75656192
404.5042	98.26513762	404.8	94.75693142
404.5902	98.26425714	404.883	94.75693142
404.6713	98.26369684	404.9653	94.75637717
404.7535	98.26329662	405.0487	94.75573054
404.8382	98.26305649	405.135	94.75526866
404.9196	98.26297645	405.2172	94.7547144
405.002	98.26281636	405.2953	94.7543449
405.0891	98.26249619	405.3808	94.7543449
405.1711	98.26217601	405.4646	94.75443727
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405.3391	98.26113545	405.6344	94.75397539
405.4248	98.26073523	405.718	94.75277451
405.5078	98.26041506	405.8014	94.75175837
405.5886	98.26009488	405.8834	94.75111174
405.6727	98.26009488	405.9675	94.75064986
405.7576	98.26001484	406.0468	94.75064986
405.8378	98.25961462	406.1348	94.75083462
405.9217	98.25913436	406.2154	94.75101937
406.007	98.25825388	406.3008	94.75092699
406.09	98.25745345	406.3846	94.75028036
406.1735	98.25689314	406.4647	94.74963373
406.2576	98.25665301	406.5489	94.7493566
406.3394	98.25657297	406.6304	94.7489871
406.4223	98.25649293	406.7146	94.7486176
406.5058	98.25617275	406.8002	94.74852522
406.589	98.25569249	406.8816	94.7486176
406.6733	98.25505214	406.9675	94.7486176
406.7564	98.25425171	407.0512	94.74852522
406.8375	98.25361136	407.1355	94.74806334
406.9246	98.25297101	407.2167	94.74750909
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407.0911	98.25225062	407.3829	94.74566157
407.171	98.25209054	407.4688	94.74519969
407.2558	98.25177036	407.5526	94.74519969
407.3368	98.2512901	407.6305	94.74556919
407.4162	98.25056971	407.7148	94.74575394
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407.589	98.24912893	407.8848	94.74547682
407.6708	98.2488888	407.9668	94.74547682
407.7506	98.24904888	408.0492	94.74519969
407.8355	98.24912893	408.1312	94.74483019
407.9197	98.2488888	408.2168	94.74455306
407.9983	98.24848858	408.2966	94.74418355
408.084	98.24784823	408.3841	94.74390643
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408.2511	98.24640745	408.5488	94.74307504
408.3341	98.2457671	408.6338	94.74242841
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408.5024	98.24496667	408.7982	94.73993427
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409.0039	98.24216514	409.3016	94.737902
409.089	98.24160484	409.3866	94.73753249
409.1706	98.24136471	409.4704	94.73670111
409.2559	98.24120462	409.5536	94.7359621
409.338	98.24120462	409.634	94.73540785
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409.5062	98.24016406	409.8018	94.7359621
409.587	98.23952371	409.8825	94.73725537
409.6713	98.2389634	409.969	94.73854863
409.755	98.23848314	410.0486	94.73947239
409.8399	98.23808293	410.1356	94.73974951
409.9243	98.23800288	410.2169	94.73947239
410.007	98.23816297	410.3014	94.73910288
410.0867	98.23816297	410.3863	94.738641
410.1697	98.2378428	410.468	94.73836388
410.2552	98.23728249	410.5511	94.73836388
410.339	98.2365621	410.6334	94.737902
410.4228	98.23576167	410.716	94.73697824
410.5014	98.2352814	410.7985	94.73540785
410.585	98.23504127	410.8822	94.73346796
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410.7524	98.23488119	411.0517	94.73097381
410.8364	98.23448097	411.1365	94.73051193
410.9228	98.23408075	411.2184	94.7306043
411.0091	98.2334404	411.3015	94.73097381
411.0903	98.23280006	411.3844	94.73125094
411.1737	98.2323198	411.4679	94.73125094
411.256	98.23191958	411.5553	94.73106618
411.3414	98.23143932	411.6339	94.7306043
411.424	98.23111914	411.7157	94.72977292
411.5076	98.23095906	411.8028	94.72903391
411.5883	98.23079897	411.8848	94.72866441
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411.755	98.22951827	412.0542	94.72764828
411.8376	98.22895797	412.135	94.72746353
411.9187	98.22855775	412.2211	94.72709402
412.004	98.22823758	412.3014	94.72672452
412.0889	98.22807749	412.3816	94.72598551
412.1764	98.2279174	412.4694	94.72515413
412.2578	98.2279174	412.5567	94.72441512
412.3418	98.22775732	412.6359	94.72367612
412.4242	98.22719701	412.716	94.72330661
412.5087	98.22663671	412.8031	94.72339899
412.584	98.2260764	412.8852	94.72349136
412.6715	98.22543606	412.9646	94.72330661
412.7535	98.22471567	413.0502	94.72302948
412.8418	98.22447554	413.137	94.72256761
412.9238	98.22439549	413.2159	94.7218286
413.0042	98.22431545	413.3014	94.72127434
413.0852	98.22383519	413.3847	94.72081246
413.1678	98.22327488	413.466	94.72099722
413.2532	98.22263454	413.5531	94.72118197
413.3326	98.22223432	413.6357	94.72127434
413.4238	98.22167401	413.7203	94.72136672

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413.5884	98.22095362	413.8872	94.72108959
413.6708	98.22071349	413.9683	94.72072009
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413.8412	98.22023323	414.14	94.71961158
413.921	98.21959288	414.2206	94.71933445
414.0055	98.21879245	414.3055	94.7191497
414.0842	98.21807206	414.3906	94.7191497
414.1739	98.21727162	414.4706	94.71896495
414.2539	98.21679136	414.5552	94.71841069
414.3412	98.21655123	414.6378	94.71748693
414.4237	98.21647119	414.7206	94.7164708
414.5105	98.2163111	414.8056	94.71545466
414.5881	98.21583084	414.8885	94.71526991
414.6715	98.21535058	414.9748	94.71545466
414.7532	98.21487032	415.0549	94.71563942
414.8386	98.21431001	415.14	94.71573179
414.9239	98.21398984	415.22	94.71554704
415.0086	98.21374971	415.3043	94.71526991
415.093	98.21374971	415.384	94.71462328
415.1759	98.21382975	415.4694	94.71388428
415.2566	98.21366967	415.5524	94.71388428
415.34	98.21334949	415.6371	94.71443853
415.4215	98.21270914	415.7199	94.71462328
415.509	98.21190871	415.805	94.71462328
415.5872	98.21126836	415.8874	94.71490041
415.6717	98.21086814	415.9688	94.71508516
415.7531	98.21046793	416.053	94.71480803
415.8425	98.21014775	416.1372	94.71406903
415.9243	98.20990762	416.2195	94.71351477
416.0078	98.20934732	416.3043	94.71333002
416.091	98.20886706	416.3882	94.71259101
416.1719	98.20806662	416.4726	94.71166725
416.2562	98.20718614	416.554	94.71120538
416.3416	98.20646575	416.638	94.711113
416.4234	98.20590545	416.725	94.7107435
416.506	98.20550523	416.8066	94.71009687
416.5916	98.20534514	416.8865	94.70926548
416.678	98.20534514	416.9754	94.70834172
416.757	98.20510501	417.0578	94.70751034
416.8412	98.20478484	417.1412	94.70658658
416.924	98.20422453	417.2228	94.70603233
417.0094	98.20358419	417.3055	94.70621708
417.0904	98.20326401	417.3922	94.70640183
417.1739	98.20318397	417.4748	94.7061247
417.2575	98.20318397	417.5586	94.70557045
417.343	98.20310393	417.6412	94.70483144
417.426	98.20310393	417.7265	94.70418481
417.5071	98.20270371	417.8109	94.70372293
417.591	98.20198332	417.8929	94.70335343
417.6752	98.20126293	417.975	94.70335343
417.7584	98.20054253	418.0584	94.70353818
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417.9265	98.19958201	418.2263	94.7030763
418.0117	98.19942193	418.3089	94.7027068
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418.926	98.19557984	419.2266	94.70021265
419.01	98.19509958	419.3056	94.69965839
419.0922	98.1942191	419.3887	94.69956602
419.177	98.19341867	419.4744	94.69965839
419.2597	98.19285836	419.5566	94.69919651
419.3412	98.19261823	419.6421	94.69799563
419.4269	98.19261823	419.7246	94.69707187
419.5104	98.19269827	419.8079	94.69642524
419.5942	98.19253819	419.8876	94.69577861
419.68	98.19205793	419.9724	94.69531673
419.7578	98.19149762	420.0594	94.69513198
419.8396	98.19085727	420.1403	94.69494723
419.9232	98.19021693	420.227	94.69485485
420.0092	98.18981671	420.3074	94.6950396
420.0922	98.18949653	420.3937	94.69522435
420.1757	98.18949653	420.4758	94.69513198
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420.3456	98.18893623	420.641	94.69383872
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421.1772	98.18485401	421.4748	94.69023606
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421.3463	98.18333319	421.6426	94.68977418
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421.5114	98.18197245	421.8082	94.69005131
421.5952	98.18165227	421.8899	94.69042081
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422.0087	98.17933101	422.3072	94.68709528
422.0914	98.17861062	422.39	94.68681815
422.1747	98.17797027	422.4702	94.68681815
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422.3418	98.17757006	422.6404	94.68635627
422.423	98.17757006	422.726	94.68598677
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422.5896	98.1770898	422.8898	94.68460113
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423.1727	98.17460845	423.4729	94.68460113
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424.8426	98.16708436	425.139	94.67767294
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426.3386	98.15891993	426.6443	94.67305415
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426.9258	98.15547806	427.2281	94.67139138
427.0088	98.15507784	427.3133	94.67074475
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427.1774	98.15363706	427.4766	94.66889724
427.2564	98.15299671	427.561	94.66843536
427.3394	98.15235636	427.6426	94.66834298
427.4261	98.15235636	427.725	94.66852773

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427.7609	98.15171601	428.0602	94.6678811
427.8381	98.15099562	428.1461	94.66732685
427.9232	98.15035527	428.2278	94.66704972
428.0076	98.14979497	428.3106	94.66677259
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428.1732	98.14931471	428.4778	94.66686497
428.2582	98.14915462	428.5603	94.66695734
428.3384	98.14883445	428.6416	94.66658784
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428.8387	98.14467219	429.1466	94.66353944
428.9266	98.14459214	429.2284	94.66363181
429.0097	98.1445121	429.314	94.66363181
429.0919	98.14435201	429.3915	94.66363181
429.1762	98.14379171	429.4789	94.66335468
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429.5088	98.14115027	429.811	94.66169192
429.5915	98.1408301	429.8944	94.66141479
429.678	98.14075006	429.9773	94.66178429
429.7608	98.14067001	430.059	94.66206142
429.8429	98.14058997	430.1418	94.66196905
429.9262	98.14018975	430.225	94.66178429
430.0126	98.1395494	430.3082	94.66150717
430.0922	98.13874897	430.393	94.66076816
430.1754	98.13810862	430.4774	94.65993678
430.2574	98.13802858	430.5633	94.65956727
430.3408	98.13810862	430.6438	94.65965965
430.4273	98.13818866	430.7294	94.65965965
430.5116	98.13810862	430.8118	94.65956727
430.5934	98.1377084	430.894	94.65919777
430.6785	98.13698801	430.9796	94.65864352
430.7601	98.13602749	431.0628	94.65790451
430.8452	98.1353071	431.145	94.65707313
430.9286	98.13490688	431.2306	94.65651887
431.0108	98.13458671	431.3132	94.65651887
431.0924	98.13426653	431.3984	94.65633412
431.1758	98.13410645	431.4766	94.65633412
431.2604	98.13394636	431.561	94.6564265
431.3468	98.13370623	431.6415	94.65633412
431.4292	98.13298584	431.7266	94.65624174
431.5132	98.13210536	431.8086	94.65596462
431.5963	98.13138497	431.8931	94.65541036
431.6778	98.13090471	431.9792	94.65476373
431.7594	98.13058453	432.0628	94.65457898
431.845	98.13058453	432.1447	94.65457898
431.9269	98.13042445	432.23	94.65476373
432.0156	98.13026436	432.3132	94.65494848
432.094	98.12970406	432.3981	94.65485611

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432.2626	98.12810319	432.565	94.65420948
432.3444	98.12754288	432.6478	94.65328572
432.429	98.12722271	432.7297	94.65282384
432.5106	98.12706262	432.8126	94.65273146
432.5916	98.12690253	432.898	94.65254671
432.6774	98.12690253	432.979	94.65236196
432.7624	98.12674245	433.0636	94.65236196
432.8414	98.1261021	433.1458	94.65236196
432.9254	98.12538171	433.2306	94.65199245
433.0062	98.12474136	433.3137	94.6510687
433.0908	98.12418106	433.3983	94.65014494
433.1716	98.12386088	433.479	94.64959068
433.256	98.12370079	433.5633	94.64885168
433.3406	98.12370079	433.6479	94.64848217
433.4224	98.12386088	433.7299	94.64857455
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433.592	98.12290036	433.8976	94.64857455
433.674	98.12217997	433.9816	94.64802029
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433.8386	98.12081923	434.1446	94.64746604
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434.1734	98.11969862	434.4766	94.64691178
434.2566	98.1192984	434.5586	94.64709653
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434.4241	98.11809775	434.7288	94.64718891
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434.84	98.1168971	435.144	94.64460239
434.9284	98.11681706	435.2254	94.64469476
435.0112	98.11625675	435.3131	94.64469476
435.0915	98.11529623	435.3966	94.64441763
435.1736	98.11441575	435.4796	94.64395576
435.2569	98.11361532	435.5624	94.6434015
435.3407	98.11313505	435.6437	94.64284725
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435.9234	98.11033353	436.2284	94.64173874
436.0082	98.10977323	436.311	94.6410921
436.094	98.10945305	436.3982	94.64053785
436.1724	98.10929297	436.479	94.63998359
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436.5089	98.10793223	436.8134	94.63970647
436.5904	98.10737192	436.8956	94.63961409
436.6679	98.10673158	436.9794	94.63942934
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437.0062	98.10513071	437.3116	94.63739707
437.0912	98.10505066	437.3948	94.63721232
437.173	98.10481053	437.4744	94.63730469
437.2554	98.10449036	437.5588	94.63739707
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437.8396	98.10200901	438.1446	94.63518005
437.9226	98.10144871	438.2308	94.63527243
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438.1728	98.09856714	438.4794	94.6349953
438.2587	98.09800684	438.5646	94.63462579
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438.8374	98.09472505	439.1522	94.63240877
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443.0885	98.07463414	443.4016	94.61818289
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443.8388	98.07039184	444.1496	94.61652013
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444.9242	98.0635081	445.2346	94.6135641
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445.6734	98.05990614	445.987	94.6135641
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451.5902	98.02812888	451.9062	94.59416517
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452.1717	98.02420675	452.4908	94.59241003
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458.4192	97.99002818	458.7396	94.57430436
458.5007	97.98922775	458.8237	94.57430436
458.5856	97.98850736	458.9063	94.57439674
458.6683	97.98794705	458.991	94.57421199
458.7503	97.98746679	459.0733	94.57365773
458.8353	97.98730671	459.158	94.57338061
458.9165	97.98714662	459.2428	94.57319585
459.0034	97.9867464	459.3264	94.57319585
459.0839	97.98634618	459.409	94.57328823
459.165	97.98570584	459.4919	94.57319585
459.2498	97.9849054	459.5762	94.57282635
459.337	97.98418501	459.6575	94.57199497
459.4182	97.98354466	459.7396	94.57097883
459.499	97.9830644	459.8258	94.5699627
459.5814	97.98290431	459.9068	94.5695932
459.6662	97.98266418	459.9895	94.5695932
459.7524	97.9825041	460.0738	94.56950082
459.8346	97.98202384	460.1572	94.56950082
459.9153	97.98130344	460.2404	94.56950082
459.9997	97.98018284	460.3232	94.56913132
460.0816	97.97930236	460.409	94.56857706

460.1662	97.97866201	460.4918	94.56802281
460.25	97.97826179	460.5756	94.56756093
460.3336	97.9781017	460.6563	94.56719142
460.4169	97.97802166	460.7413	94.56682192
460.4979	97.97778153	460.8266	94.56682192
460.5806	97.97730127	460.907	94.56719142
460.665	97.97666092	460.9894	94.56737617
460.749	97.97602057	461.076	94.56709905
460.834	97.97546027	461.1584	94.56672954
460.9154	97.97498001	461.2384	94.56608291
460.9982	97.97481992	461.3269	94.56543628
461.0816	97.97481992	461.4111	94.56488203
461.1631	97.97465984	461.4946	94.56478965
461.249	97.97433966	461.5766	94.56478965
461.3313	97.97369931	461.6608	94.56469728
461.4137	97.97281884	461.7436	94.5646049
461.4996	97.97209844	461.8275	94.56405064
461.58	97.9714581	461.9139	94.56331164
461.66	97.97097784	461.9926	94.56257263
461.7474	97.97065766	462.0761	94.56201838
461.8306	97.97033749	462.1602	94.56183362
461.9136	97.9701774	462.244	94.56174125
461.9981	97.96985723	462.328	94.561926
462.0833	97.96929692	462.4132	94.56201838
462.165	97.96865657	462.4942	94.56183362
462.2493	97.96785614	462.5754	94.56137174
462.332	97.96697566	462.6574	94.56072511
462.4187	97.96625527	462.7416	94.56007848
462.4982	97.96577501	462.8241	94.5596166
462.5835	97.96569497	462.909	94.55933948
462.6672	97.96553488	462.9916	94.5592471
462.7506	97.96505462	463.0762	94.55933948
462.8338	97.96425418	463.16	94.55933948
462.9196	97.96345375	463.2428	94.55933948
462.9984	97.96257327	463.3265	94.55933948
463.08	97.96185288	463.4092	94.55896997
463.1668	97.96145266	463.4902	94.55832334
463.2508	97.96137262	463.577	94.55758433
463.3309	97.96137262	463.6589	94.55721483
463.4143	97.96121253	463.7451	94.55721483
463.4978	97.96065223	463.8261	94.55730721
463.5824	97.96001188	463.9068	94.55767671
463.6657	97.95929149	463.9916	94.55813859
463.749	97.95849105	464.0766	94.55823097
463.8336	97.95801079	464.1567	94.55776909
463.9142	97.95793075	464.2403	94.55721483
463.9978	97.95777066	464.3258	94.55666058
464.0828	97.95745049	464.4098	94.55638345
464.1684	97.95713031	464.495	94.5561987
464.2514	97.9567301	464.573	94.55610632
464.334	97.95592966	464.656	94.55592157
464.4184	97.95496914	464.743	94.55545969
464.5029	97.9541687	464.8286	94.55444356
464.5836	97.9536084	464.9079	94.55333505
464.6685	97.9530481	464.9948	94.55231891
464.7492	97.95264788	465.0742	94.55167228

464.8346	97.95224766	465.1563	94.55148753
464.9191	97.95184744	465.241	94.55148753
465.001	97.95128714	465.3238	94.55148753
465.0817	97.95040666	465.4087	94.55167228
465.1696	97.94960623	465.4898	94.5515799
465.2508	97.94880579	465.57	94.5512104
465.3326	97.94824549	465.6561	94.55056377
465.4142	97.94776523	465.7388	94.55000951
465.4992	97.94760514	465.8228	94.54964001
465.582	97.94728497	465.9066	94.54954764
465.6653	97.94688475	465.9926	94.54945526
465.7496	97.94648453	466.0748	94.54964001
465.8326	97.94584418	466.155	94.54973239
465.9187	97.94520383	466.2381	94.54954764
466.0032	97.94448344	466.3236	94.54917813
466.0898	97.94392314	466.4038	94.54862388
466.1696	97.94360297	466.491	94.54806962
466.2522	97.94352292	466.575	94.54760774
466.3358	97.94360297	466.6586	94.54723824
466.4206	97.94344288	466.7378	94.54714586
466.5054	97.94296262	466.8252	94.54714586
466.5878	97.94208214	466.9056	94.54714586
466.67	97.94112162	466.9892	94.54714586
466.7559	97.94032118	467.0708	94.54686874
466.8377	97.93992097	467.1572	94.54649923
466.922	97.93960079	467.2366	94.5458526
467.006	97.93968083	467.3246	94.54520597
467.0883	97.9394407	467.4074	94.54492884
467.1683	97.93872031	467.4916	94.54483647
467.2541	97.93791988	467.5728	94.54483647
467.337	97.93711944	467.6565	94.54483647
467.418	97.93623897	467.7402	94.54474409
467.5	97.93543853	467.824	94.54428221
467.5835	97.93495827	467.9044	94.54345083
467.6658	97.9346381	467.99	94.54271182
467.7496	97.93455805	468.0754	94.54224994
467.8346	97.93423788	468.1576	94.54206519
467.922	97.93375762	468.2424	94.54197282
468.0046	97.93311727	468.324	94.54188044
468.086	97.93223679	468.4066	94.54188044
468.1694	97.93143636	468.4926	94.54160331
468.2497	97.9309561	468.5744	94.54123381
468.3336	97.93079601	468.658	94.54067955
468.4194	97.93063592	468.7414	94.54021767
468.5033	97.93055588	468.8231	94.5397558
468.5852	97.93031575	468.9062	94.5397558
468.6664	97.9296754	468.9928	94.53984817
468.7514	97.92887496	469.0762	94.54003292
468.836	97.92791444	469.1611	94.53994055
468.92	97.92719405	469.2406	94.53966342
469	97.92671379	469.328	94.53920154
469.0828	97.92631357	469.4107	94.53855491
469.1703	97.9259934	469.4932	94.5378159
469.2512	97.92567323	469.5748	94.5374464
469.336	97.92519296	469.6604	94.53716927
469.4174	97.92439253	469.7422	94.53661502

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469.5869	97.92263157	469.9108	94.53578363
469.666	97.92199123	469.992	94.53541413
469.754	97.92151096	470.0759	94.53522938
469.8328	97.92127083	470.1605	94.53495225
469.9168	97.9210307	470.2419	94.53458275
470.0003	97.92095066	470.3257	94.53412087
470.0847	97.92063049	470.4116	94.53356661
470.1687	97.91999014	470.4943	94.53328949
470.2534	97.91926975	470.5781	94.53338186
470.3356	97.91830923	470.6605	94.53365899
470.4203	97.91758883	470.7402	94.53412087
470.5043	97.91710857	470.8254	94.53402849
470.5878	97.91670836	470.9081	94.53365899
470.67	97.91638818	470.9936	94.53282761
470.753	97.91614805	471.0754	94.53218098
470.8336	97.91566779	471.1576	94.5317191
470.92	97.91486736	471.2414	94.53144197
471.004	97.91390683	471.3265	94.53134959
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471.1684	97.91270618	471.492	94.53116484
471.2496	97.91214588	471.5778	94.53061059
471.3336	97.91190575	471.6607	94.52996395
471.4183	97.91190575	471.7448	94.52931732
471.5025	97.91158557	471.8307	94.52876307
471.5862	97.91094523	471.9113	94.52811644
471.6685	97.91014479	471.9968	94.52802406
471.7515	97.90926431	472.0772	94.52820881
471.8338	97.90838383	472.164	94.52830119
471.9207	97.90766344	472.2504	94.52811644
471.9996	97.90726323	472.333	94.52774693
472.0856	97.90718318	472.4125	94.5271003
472.1686	97.90686301	472.491	94.52645367
472.2542	97.90646279	472.577	94.52571467
472.3354	97.90590249	472.6596	94.52525279
472.4204	97.90502201	472.741	94.52497566
472.5028	97.90406149	472.8276	94.52479091
472.5861	97.90334109	472.9102	94.52469853
472.6684	97.90278079	472.9926	94.52469853
472.754	97.90238057	473.0738	94.52451378
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472.9178	97.90214044	473.2433	94.52349765
473.003	97.90174023	473.3252	94.52266626
473.0864	97.90101983	473.4056	94.52229676
473.168	97.90005931	473.4898	94.52211201
473.253	97.89917883	473.5728	94.52211201
473.335	97.89861853	473.658	94.52192726
473.4185	97.89829836	473.7426	94.52155775
473.5016	97.89805823	473.8236	94.52118825
473.584	97.89773805	473.9098	94.52072637
473.666	97.89741788	473.994	94.51998736
473.75	97.89693762	474.0766	94.51924836
473.8336	97.89613718	474.156	94.51878648
473.9182	97.89517666	474.2394	94.51860173
474.0011	97.89421614	474.3224	94.51850935
474.0837	97.89349575	474.408	94.51860173

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474.2544	97.89245518	474.575	94.51841697
474.3318	97.89237514	474.659	94.51795509
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474.5003	97.89181483	474.822	94.51684658
474.585	97.89093436	474.9074	94.51647708
474.6676	97.89005388	474.989	94.51619995
474.7509	97.88949357	475.0747	94.51583045
474.832	97.88901331	475.1582	94.5156457
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475	97.88853305	475.3224	94.51546095
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475.251	97.88725236	475.5734	94.51389056
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475.4204	97.88533131	475.7409	94.51305917
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475.5842	97.88381049	475.9093	94.51342868
475.6676	97.88349031	475.9938	94.51352105
475.7528	97.88349031	476.078	94.5133363
475.8321	97.88317014	476.1605	94.51287442
475.9165	97.88268988	476.2416	94.51222779
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476.4222	97.87820744	476.7446	94.51001077
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476.835	97.87548596	477.1641	94.50705474
476.918	97.87468553	477.2444	94.50659286
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477.752	97.86844214	478.0802	94.50419109
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478.2536	97.86596079	478.5794	94.5018817
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478.59	97.86363953	478.9139	94.50114269
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478.922	97.8621187	479.2472	94.49984943
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479.5024	97.85819657	479.8308	94.49772478
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480.9217	97.84859135	481.2456	94.49162798
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486.3424	97.80624835	486.6676	94.46724075
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486.508	97.80472753	486.834	94.46557799
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487.0948	97.80096548	487.4184	94.46317621
487.178	97.79992492	487.4974	94.46243721
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487.345	97.79872427	487.6656	94.4613287
487.4246	97.79840409	487.7502	94.46105157
487.5071	97.79776375	487.8346	94.46114395
487.591	97.79688327	487.9193	94.46095919
487.672	97.79600279	488.0026	94.46058969
487.7587	97.79496222	488.083	94.46031256
487.839	97.79392166	488.1641	94.45975831
487.9225	97.79304118	488.252	94.45874217
488.0106	97.79256092	488.3352	94.45791079
488.0933	97.79240083	488.4188	94.45754129

488.1766	97.7921607	488.5014	94.45754129
488.2609	97.79200061	488.587	94.45754129
488.3422	97.7916004	488.6675	94.45744891
488.4253	97.79088001	488.7528	94.45744891
488.5124	97.78991948	488.835	94.45707941
488.5926	97.78871883	488.9156	94.45624803
488.676	97.7879184	489.0003	94.45541664
488.758	97.78751818	489.085	94.45477001
488.8425	97.78735809	489.17	94.45440051
488.9259	97.78711796	489.253	94.45430813
489.011	97.78655766	489.3341	94.45421576
489.0976	97.78551709	489.4171	94.45412338
489.1781	97.78415635	489.4989	94.45403101
489.2626	97.78287566	489.586	94.45375388
489.3472	97.78183509	489.6694	94.45301487
489.4268	97.78119474	489.753	94.45236824
489.5119	97.78063444	489.8357	94.45162923
489.5961	97.78031427	489.9216	94.45116735
489.6791	97.77999409	490.0002	94.4509826
489.7644	97.77943379	490.0846	94.45079785
489.8441	97.7787134	490.1654	94.45079785
489.927	97.77791296	490.2542	94.45070547
490.0125	97.77711253	490.3385	94.4502436
490.0943	97.77631209	490.4208	94.44922746
490.175	97.77567174	490.5054	94.44839608
490.2628	97.77543161	490.5915	94.4475647
490.3472	97.77535157	490.6739	94.44710282
490.4313	97.7750314	490.7582	94.44710282
490.515	97.77439105	490.8396	94.44710282
490.5988	97.77343053	490.9214	94.44701044
490.6797	97.77230992	491.004	94.44691806
490.7656	97.77118931	491.0903	94.44654856
490.8516	97.77014874	491.1712	94.44580955
490.9344	97.76942835	491.2559	94.44534767
491.0148	97.76886805	491.337	94.44497817
491.0981	97.76838779	491.422	94.44470104
491.182	97.76774744	491.5078	94.44451629
491.2652	97.76694701	491.5904	94.44442392
491.3494	97.76606653	491.672	94.44414679
491.4324	97.76502596	491.7528	94.44386966
491.5184	97.7639854	491.837	94.44322303
491.605	97.76302488	491.9209	94.44211452
491.6829	97.76238453	492.002	94.44100601
491.7684	97.76198431	492.0866	94.44008225
491.8504	97.76166414	492.1722	94.439528
491.935	97.76134396	492.253	94.43934324
492.0176	97.76078366	492.3372	94.43925087
492.1	97.75998322	492.4234	94.43906612
492.1867	97.75894266	492.5066	94.43878899
492.2675	97.75790209	492.5896	94.43832711
492.3516	97.75710166	492.676	94.43768048
492.431	97.7566214	492.7566	94.4368491
492.5191	97.75630122	492.8378	94.43629484
492.6059	97.75614114	492.9218	94.43583296
492.6848	97.75566087	493.0052	94.43546346
492.7717	97.75494048	493.0896	94.43564821

492.8551	97.75406001	493.1728	94.43583296
492.9362	97.7529394	493.2562	94.43564821
493.0218	97.75189883	493.3397	94.43527871
493.1056	97.75125848	493.4206	94.43444732
493.1852	97.75093831	493.5046	94.43343119
493.2691	97.75093831	493.591	94.43287694
493.3507	97.75069818	493.6712	94.43250743
493.4346	97.74997779	493.7553	94.43241506
493.519	97.74917735	493.8384	94.43250743
493.6027	97.7479767	493.9206	94.43232268
493.6858	97.74669601	494.0067	94.4318608
493.7664	97.7455754	494.0894	94.43112179
493.8556	97.74477496	494.174	94.43019804
493.9374	97.74405457	494.2557	94.42927428
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494.1848	97.74237366	494.5127	94.42816577
494.2688	97.74165327	494.593	94.42798101
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494.4316	97.73973222	494.7586	94.42696488
494.5206	97.73893179	494.8382	94.42622587
494.6036	97.73837148	494.9248	94.42530212
494.6861	97.73805131	495.0045	94.42456311
494.77	97.73781118	495.0892	94.4238241
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494.9374	97.73677061	495.2534	94.42299272
495.0238	97.73565001	495.3366	94.42308509
495.107	97.7345294	495.4234	94.42290034
495.1896	97.73340879	495.507	94.42262322
495.2747	97.73236822	495.5898	94.42216134
495.3579	97.73164783	495.6786	94.42142233
495.4376	97.73116757	495.7575	94.42068332
495.5216	97.7308474	495.8428	94.41985194
495.6079	97.73052722	495.9262	94.41939006
495.6873	97.72980683	496.0107	94.41929768
495.7693	97.72876627	496.0894	94.41929768
495.8513	97.72780574	496.1711	94.41892818
495.9394	97.72652505	496.258	94.41865105
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496.1046	97.72500422	496.423	94.41726542
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496.357	97.72396366	496.6746	94.41523315
496.4394	97.72316322	496.7566	94.4154179
496.5234	97.72252287	496.84	94.4157874
496.6092	97.72172244	496.925	94.4157874
496.6886	97.72068187	497.004	94.4154179
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497.025	97.71828057	497.3403	94.41246187
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497.2715	97.715399	497.5914	94.41181524
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497.9396	97.70883544	498.2591	94.40701117
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503.2968	97.65672713	503.5961	94.37495728
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503.4656	97.65472605	503.761	94.37440302
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503.6352	97.65384557	503.932	94.37246313
503.7171	97.65344535	504.0156	94.37144699
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516.6952	97.49559961	516.957	94.28101104
516.7786	97.49423887	517.04	94.2803644
516.8652	97.49311826	517.1242	94.28008728
516.9447	97.49247791	517.2071	94.27971777
517.0294	97.49167748	517.289	94.27925589
517.1122	97.49063691	517.3742	94.27879401
517.1996	97.48943626	517.4566	94.27814738
517.2804	97.48783539	517.54	94.27722363
517.3646	97.48623452	517.6221	94.27602274
517.4516	97.4847137	517.7042	94.27491423
517.5372	97.48335296	517.7896	94.27417522
517.6158	97.48223235	517.8721	94.27352859
517.7	97.48143191	517.959	94.27297434
517.7848	97.48055144	518.0404	94.27269721
517.8688	97.47967096	518.1231	94.27232771
517.9516	97.47847031	518.2084	94.2715887
518.0369	97.47710957	518.2911	94.27084969
518.122	97.47566878	518.3757	94.27001831
518.2058	97.474228	518.4564	94.26974118
518.2883	97.4729473	518.5402	94.26964881
518.3742	97.4718267	518.625	94.26946405
518.4532	97.47094622	518.7094	94.26918693
518.54	97.47006574	518.7953	94.2685403
518.6226	97.46910522	518.8752	94.26789366
518.709	97.46782452	518.9594	94.26715466
518.7916	97.4663037	519.0438	94.26641565
518.8746	97.46454274	519.1303	94.26549189
518.9581	97.46278178	519.2087	94.26466051
519.0425	97.46126096	519.2981	94.26336725
519.1246	97.46022039	519.3804	94.26188923
519.21	97.45941996	519.4598	94.26096548
519.293	97.45853948	519.546	94.26031884
519.3778	97.45757896	519.6292	94.25976459
519.4617	97.4563783	519.7116	94.25921033
519.5456	97.45477744	519.7946	94.25837895
519.6293	97.45325661	519.8789	94.25745519
519.7148	97.45189587	519.9641	94.25606956
519.7979	97.45069522	520.0476	94.25477629
519.8824	97.44965465	520.1304	94.25385253
519.9664	97.44893426	520.2134	94.25348303
520.0527	97.44797374	520.2988	94.25339066
520.1344	97.44693317	520.3817	94.25311353
520.2188	97.44549239	520.4656	94.25255927
520.3004	97.44389152	520.553	94.25191264
520.3879	97.44213057	520.6352	94.25108126
520.472	97.44036961	520.7176	94.24997275
520.5538	97.43884878	520.8	94.24895661
520.6352	97.43780822	520.8821	94.24812523
520.7212	97.43676765	520.9686	94.2474786
520.8062	97.43572709	521.0507	94.2471091
520.8889	97.43460648	521.1329	94.24664722

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521.14	97.42964378	521.3868	94.24415307
521.2238	97.428203	521.4696	94.24285981
521.3072	97.4269223	521.5509	94.24193605
521.3941	97.42564161	521.6366	94.24128942
521.477	97.42460104	521.7196	94.24082754
521.5626	97.42372057	521.8	94.24055041
521.6454	97.42268	521.8839	94.24008853
521.728	97.42123922	521.966	94.23925715
521.8131	97.41971839	522.0488	94.23842577
521.8993	97.41819756	522.1346	94.23759439
521.9834	97.41667674	522.2172	94.236763
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522.1496	97.41411535	522.3866	94.23510024
522.2306	97.41323487	522.4691	94.23436123
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522.3998	97.41115374	522.6354	94.23343747
522.4839	97.40963291	522.7194	94.23279084
522.5653	97.40779191	522.8046	94.23205183
522.6519	97.40587087	522.8871	94.23112808
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523.9117	97.38634026	524.1381	94.21865734
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524.1624	97.38137756	524.3904	94.21551656
524.2462	97.37993678	524.4732	94.21440805
524.33	97.37865609	524.5562	94.21311478
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524.5006	97.37657496	524.7246	94.21080539
524.5871	97.37529426	524.8089	94.21006638
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524.8356	97.37025152	525.0599	94.20812649
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525.0033	97.36672961	525.225	94.2069256
525.0886	97.36504869	525.3104	94.20609422
525.1702	97.363768	525.39	94.20498571
525.259	97.36272743	525.476	94.2042467
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525.4245	97.360086	525.6433	94.20332294
525.51	97.35856517	525.7274	94.20267631
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546.1425	96.89311234	546.2292	93.94273067
546.2265	96.89055095	546.309	93.94162216
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546.7328	96.87742382	546.8168	93.93183032
546.8204	96.87486243	546.9013	93.93072181
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547.2387	96.86173529	547.3217	93.92351649
547.3235	96.8591739	547.4036	93.9215766
547.4087	96.85693269	547.4843	93.92046809
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547.5774	96.85188995	547.6547	93.91935958
547.663	96.84924851	547.7389	93.91871295
547.7456	96.8462869	547.8241	93.91778919
547.8304	96.84340534	547.905	93.9165883
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548.764	96.8149899	548.8316	93.89755888
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574.8506	95.68437575	574.6574	93.24279884
574.9368	95.67909288	574.7428	93.24030469
575.0229	95.67405014	574.8272	93.23771817
575.1078	95.66876727	574.9131	93.23485452
575.1942	95.6634844	574.9953	93.23199087
575.2813	95.65844167	575.0838	93.22894246
575.3653	95.6537191	575.1641	93.22580168
575.4494	95.64883645	575.2481	93.2226609
575.5361	95.64411388	575.3336	93.219243
575.6224	95.63923123	575.4193	93.2161946
575.7076	95.63410845	575.5046	93.21370045
575.7955	95.62882558	575.5888	93.2112063
575.8794	95.62330258	575.6729	93.20843502
575.9638	95.61793966	575.7553	93.20557137
576.0512	95.61281688	575.8413	93.20224584
576.136	95.60777414	575.9242	93.19855081
576.2193	95.60289149	576.0105	93.19485577
576.3034	95.59800884	576.0944	93.19134549
576.3926	95.59304614	576.1778	93.18838946
576.4756	95.58792336	576.2634	93.18534106
576.5618	95.58272053	576.3474	93.18210791
576.648	95.57751771	576.4316	93.17887475
576.7328	95.57215479	576.5166	93.17582635
576.8164	95.56695197	576.5987	93.17240844
576.9012	95.56182919	576.6864	93.16880578
576.9854	95.55694653	576.7693	93.1652955
577.0739	95.55206388	576.8569	93.16196997
577.1606	95.54702114	576.9397	93.15864444
577.2455	95.54165823	577.0222	93.15550366
577.3305	95.5358951	577.109	93.15273239
577.4169	95.53005192	577.1907	93.14986873
577.5022	95.52444888	577.275	93.14691271
577.5906	95.51924605	577.3608	93.14377193
577.6738	95.51412327	577.4444	93.1404464
577.7604	95.50900049	577.5307	93.13693611

577.8469	95.50395775	577.6154	93.13342583
577.9314	95.49859484	577.6962	93.1301003
578.0171	95.49299179	577.7824	93.12723665
578.1024	95.48746879	577.8662	93.12446537
578.1891	95.48186575	577.9542	93.12150935
578.2734	95.47634275	578.0396	93.11827619
578.3571	95.47073971	578.1214	93.11467353
578.4448	95.46545684	578.2055	93.11070137
578.5322	95.46033405	578.2895	93.10682159
578.6139	95.45529131	578.3742	93.10321893
578.7002	95.45000844	578.4572	93.09998577
578.7842	95.44456549	578.547	93.09675262
578.873	95.4388824	578.6276	93.09351946
578.9562	95.43319931	578.713	93.09028631
579.045	95.42751623	578.7968	93.08714553
579.1283	95.42215331	578.8794	93.08372762
579.2158	95.41695049	578.9665	93.07994021
579.299	95.41174766	579.0467	93.07606043
579.3861	95.40638475	579.1324	93.07227302
579.4721	95.40086175	579.2188	93.06894749
579.5546	95.39485849	579.3041	93.06571433
579.6372	95.38885523	579.3922	93.06266593
579.7258	95.38301205	579.4743	93.05952515
579.8098	95.37708883	579.56	93.05583012
579.8972	95.37148579	579.6446	93.05204271
579.9806	95.36596279	579.7268	93.04807055
580.0682	95.36035975	579.8138	93.04419076
580.1546	95.3547567	579.8986	93.04049573
580.2402	95.34907362	579.9816	93.03689307
580.3284	95.34331049	580.068	93.03347516
580.4112	95.33778749	580.1533	93.03042676
580.4974	95.33194431	580.2386	93.02765548
580.5828	95.32602109	580.3236	93.02432995
580.6701	95.32041805	580.4058	93.02063492
580.7542	95.31481501	580.4888	93.01675513
580.8398	95.30929201	580.576	93.01287535
580.925	95.30376901	580.662	93.00899556
581.0106	95.29808592	580.7459	93.0053929
581.0972	95.29224275	580.8336	93.00215975
581.1818	95.28615944	580.9151	92.99920372
581.2708	95.27975596	581.0026	92.99560106
581.3528	95.27367266	581.085	92.99144415
581.4448	95.26790953	581.1695	92.98756436
581.5276	95.26230648	581.2562	92.98368458
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581.697	95.25134053	581.4244	92.97601738
581.7826	95.24533727	581.5104	92.97232235
581.8684	95.23925396	581.5972	92.96871969
581.9551	95.23301057	581.6843	92.96502466
582.0416	95.22668714	581.7676	92.96132962
582.128	95.22076392	581.8504	92.95754221
582.2141	95.21492074	581.9384	92.95357005
582.2992	95.20915761	582.0209	92.94941314
582.388	95.20347453	582.1081	92.94507147
582.4722	95.19763135	582.1905	92.94072981
582.5568	95.19154805	582.274	92.93675764

582.6431	95.18562483	582.3616	92.93297023
582.7257	95.17938144	582.4415	92.92955233
582.8118	95.17297796	582.5258	92.92594967
582.892	95.16673457	582.6125	92.92216226
582.9768	95.16065127	582.697	92.91828247
583.0587	95.15472805	582.7778	92.91467982
583.1406	95.14888487	582.859	92.91080003
583.2222	95.14288161	582.9395	92.90692024
583.305	95.13679831	583.0222	92.90322521
583.3932	95.13063496	583.1063	92.89962255
583.4812	95.12415144	583.189	92.89611227
583.5722	95.11766792	583.2734	92.89241724
583.6619	95.11142453	583.3564	92.88881458
583.7539	95.10542126	583.4489	92.88502717
583.8422	95.099418	583.5331	92.8806855
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584.013	95.08757157	583.712	92.87172505
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584.2728	95.06844118	583.9729	92.86017806
584.3594	95.06187761	584.0562	92.85657541
584.4465	95.05571426	584.1415	92.85288037
584.5334	95.049711	584.2229	92.84872346
584.6176	95.04386783	584.3101	92.84410467
584.702	95.03794461	584.3959	92.839763
584.7876	95.03178126	584.4832	92.83560609
584.8741	95.02537779	584.5668	92.83154155
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585.049	95.01225065	584.7354	92.82387435
585.1322	95.00568709	584.822	92.81999457
585.2176	94.99928361	584.906	92.81602241
585.3018	94.99304022	584.9915	92.81168074
585.39	94.98695691	585.0765	92.80715432
585.4774	94.98079357	585.1605	92.80272028
585.563	94.97447013	585.245	92.79828624
585.647	94.96806665	585.3339	92.79394458
585.7306	94.96166318	585.4205	92.78988004
585.8203	94.95501957	585.5025	92.78600025
585.904	94.94829591	585.5844	92.78212047
585.9928	94.94165231	585.6711	92.77814831
586.079	94.93516878	585.7608	92.77371427
586.1655	94.92892539	585.8406	92.76918785
586.2502	94.92276204	585.9242	92.76475381
586.3343	94.91619848	586.0071	92.76041214
586.4224	94.90963491	586.0965	92.75607048
586.5068	94.90291126	586.1812	92.75191357
586.5932	94.89610757	586.2636	92.7479414
586.6788	94.88930387	586.3476	92.74406162
586.761	94.88266026	586.4328	92.73990471
586.8502	94.87625678	586.5157	92.73537829
586.936	94.86993335	586.603	92.73066712
587.0194	94.86360991	586.6911	92.72595595
587.106	94.85704635	586.7734	92.72152191
587.1903	94.85040274	586.8578	92.71699549
587.2794	94.84359904	586.9415	92.71283858
587.365	94.83655522	587.026	92.70868167

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587.5405	94.82262765	587.2001	92.69990596
587.6217	94.81598404	587.2835	92.69519479
587.7078	94.80942048	587.3682	92.69048362
587.7946	94.80285691	587.451	92.68604958
587.8809	94.79605322	587.5403	92.68143079
587.9639	94.78916948	587.626	92.67662725
588.0493	94.78212565	587.7078	92.67228558
588.1349	94.77492174	587.7936	92.66812867
588.22	94.768038	587.8771	92.66397176
588.3062	94.76115426	587.9604	92.65981484
588.3902	94.75451065	588.0444	92.65528843
588.4782	94.74810717	588.1301	92.65048488
588.5639	94.74146356	588.2195	92.64558896
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588.7394	94.72785617	588.3844	92.63579712
588.8216	94.72081235	588.4696	92.63154783
588.9098	94.71376852	588.5557	92.62729854
588.9952	94.70664465	588.639	92.62295688
589.0795	94.69976091	588.7263	92.61852284
589.1649	94.69327739	588.8114	92.61371929
589.2506	94.68671382	588.8976	92.60900812
589.3398	94.67975004	588.9851	92.60429696
589.4252	94.6728663	589.0694	92.59949341
589.5097	94.66590252	589.1548	92.59468987
589.5944	94.65861856	589.2385	92.5899787
589.6802	94.65125456	589.3252	92.58554466
589.7662	94.64413069	589.41	92.58101824
589.8506	94.63708687	589.4913	92.57612232
589.9343	94.63004304	589.5778	92.5712264
590.0179	94.6231593	589.6611	92.56614573
590.1052	94.6163556	589.7488	92.56078793
590.191	94.60955191	589.8316	92.55561488
590.277	94.60258813	589.919	92.55099609
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590.4488	94.58802021	590.089	92.54240513
590.5348	94.5808163	590.1748	92.53787872
590.6216	94.57361239	590.2582	92.53325993
590.7052	94.56672865	590.3421	92.52845638
590.7908	94.56008504	590.4287	92.52356046
590.8766	94.5532013	590.514	92.51857216
590.963	94.54599739	590.5986	92.51349149
591.0495	94.53863339	590.6837	92.5085032
591.1332	94.5311093	590.7676	92.5035149
591.2188	94.52382534	590.8513	92.49889611
591.305	94.51646134	590.9394	92.49446207
591.3892	94.50933747	591.0228	92.4897509
591.4776	94.50253378	591.1108	92.48467023
591.563	94.49573008	591.1942	92.47931243
591.6458	94.48860621	591.277	92.47376988
591.7358	94.48124221	591.3629	92.4683197
591.8193	94.47379817	591.4468	92.46314665
591.905	94.46643417	591.5318	92.45825073
591.9898	94.45915021	591.6144	92.45344719
592.0778	94.45170617	591.6986	92.44845889
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592.3321	94.43033456	591.9578	92.43247787
592.4202	94.4230506	592.041	92.4270277
592.505	94.41576664	592.1256	92.42185465
592.5915	94.40816251	592.2115	92.4166816
592.6758	94.40047834	592.2972	92.4116933
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592.8482	94.3849499	592.4653	92.40236334
592.9355	94.37750586	592.5521	92.39737505
593.019	94.37014186	592.6351	92.39247913
593.1058	94.36269782	592.7222	92.3872137
593.1874	94.35517373	592.8066	92.38157878
593.2757	94.34772969	592.8908	92.3761286
593.3618	94.34012556	592.9776	92.37071538
593.4453	94.33252143	593.062	92.36566242
593.533	94.32499734	593.1465	92.36071107
593.6158	94.31747325	593.2294	92.35545489
593.7015	94.30986912	593.3128	92.35009709
593.785	94.30242508	593.4011	92.3446192
593.8716	94.29514112	593.4856	92.33867019
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594.1292	94.27288903	593.743	92.32183008
594.215	94.26496473	593.825	92.31658313
594.2984	94.25704042	593.9136	92.31151169
594.3865	94.24927621	593.9978	92.30646797
594.4711	94.24191221	594.0831	92.30125797
594.5562	94.23454821	594.1653	92.29579856
594.6407	94.22718421	594.2534	92.29014516
594.728	94.21966012	594.3378	92.28428853
594.8118	94.21221608	594.4236	92.27841343
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594.9865	94.19644751	594.5952	92.2675685
595.066	94.18852321	594.6787	92.26260792
595.1524	94.18043881	594.7638	92.25742563
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595.839	94.11688429	595.4448	92.2131037
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596.0104	94.10095564	595.617	92.20251743
596.0976	94.0935116	595.698	92.19683631
596.1822	94.08590746	595.7848	92.19080417
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596.5278	94.05348986	596.1261	92.1674885
596.6122	94.04516533	596.2096	92.16216765
596.6995	94.03692086	596.2955	92.15656968
596.7877	94.02899655	596.3795	92.1506761
596.8708	94.02115229	596.4662	92.14461624
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597.4716	93.96424138	597.0645	92.10283465
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601.3438	93.58147346	600.901	91.82429374
601.4278	93.57282876	600.9879	91.81784591
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603.9309	93.30868528	603.457	91.62138095
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604.2786	93.27050454	603.805	91.59292918
604.3619	93.26073923	603.8903	91.58610261
604.4479	93.25137415	603.9759	91.5793407
604.5391	93.24216915	604.0596	91.57247717
604.6234	93.23304419	604.1438	91.56548432
604.7081	93.22375915	604.2305	91.55850994
604.796	93.21423397	604.3164	91.55138776
604.8814	93.20454871	604.401	91.54392379
604.9672	93.19486345	604.4861	91.53658915
605.0548	93.18517819	604.5724	91.52971639
605.1409	93.17549293	604.6578	91.52325008
605.228	93.16588771	604.7425	91.51679301
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605.3995	93.14683736	604.915	91.5029551
605.4888	93.13747227	604.9979	91.4955558
605.5732	93.12770697	605.087	91.48780546
605.658	93.11778158	605.1752	91.48010132
605.7463	93.10785619	605.2572	91.47279439
605.8318	93.09785075	605.3438	91.46594934
605.918	93.08808545	605.4288	91.45902115
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606.1811	93.0592698	605.6856	91.43737749
606.2652	93.04950449	605.771	91.42984885
606.352	93.0395791	605.8566	91.42227403
606.4389	93.02949362	605.9406	91.41485625
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634.2388	88.83385455	633.3134	88.41023931
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634.5896	88.76677811	633.655	88.36266575
634.6748	88.7498089	633.742	88.35039823
634.7626	88.73299977	633.8278	88.33801987
634.8492	88.71651081	633.9128	88.32576159
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635.3721	88.61549594	634.4252	88.2534313
635.4574	88.59844668	634.5127	88.24109912
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635.6347	88.56458828	634.6839	88.21677656
635.7197	88.54769911	634.7728	88.20494322
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693.3372	72.97308698	692.2245	76.12618172
693.4184	72.94590422	692.3076	76.10316166

693.5032	72.9186334	692.394	76.08006769
693.5864	72.89148265	692.4747	76.05711229
693.672	72.86429989	692.5612	76.03411994
693.752	72.83722118	692.645	76.01146939
693.8398	72.81023052	692.731	75.98889273
693.92	72.78323185	692.8144	75.96628836
694.0039	72.75624919	692.8972	75.94383179
694.0902	72.7290184	692.9849	75.92123665
694.1742	72.70173958	693.0681	75.89839211
694.2578	72.67456482	693.1525	75.87550137
694.3422	72.64727	693.239	75.8527492
694.4257	72.62018328	693.3245	75.83002474
694.511	72.59342475	693.4068	75.80739265
694.5924	72.56667422	693.4929	75.78479752
694.6803	72.5397716	693.5764	75.76213773
694.762	72.51273292	693.6634	75.73916385
694.8462	72.48547011	693.7468	75.71603294
694.9321	72.4582073	693.833	75.69293897
695.015	72.43073638	693.913	75.66984501
695.0962	72.40340153	693.9992	75.64655706
695.1806	72.37630681	694.0826	75.62325063
695.265	72.34921209	694.1694	75.60011972
695.3516	72.32213338	694.2556	75.57741373
695.4345	72.29503066	694.3353	75.55456919
695.5175	72.26772783	694.418	75.5318632
695.6012	72.24031294	694.5068	75.50938816
695.6876	72.21286603	694.5894	75.48662675
695.7691	72.18535508	694.6754	75.46344965
695.8551	72.15806826	694.7581	75.44004161
695.938	72.13073341	694.8415	75.4167167
696.0216	72.10369473	694.93	75.39356732
696.1081	72.07680012	695.0138	75.37052878
696.189	72.04962536	695.0942	75.34763804
696.274	72.02238656	695.178	75.32500596
696.3574	71.99513976	695.2628	75.3020598
696.4414	71.96766884	695.3501	75.27892888
696.529	71.94025395	695.4368	75.25547465
696.6101	71.91296712	695.5194	75.23205738
696.693	71.8856803	695.6026	75.20910198
696.7765	71.85877769	695.6901	75.18619277
696.8645	71.83183505	695.7722	75.16326508
696.9454	71.80478036	695.8569	75.14056833
697.0282	71.77770965	695.9407	75.11795472
697.1134	71.75044684	696.0251	75.09500856
697.1953	71.72308798	696.1105	75.07182222
697.279	71.69589721	696.1941	75.0485158
697.3642	71.66868243	696.2785	75.02518166
697.45	71.64154769	696.3638	75.00193989
697.5324	71.61458104	696.4487	74.97848566
697.6179	71.58752634	696.532	74.95533628
697.702	71.5605677	696.6186	74.9325102
697.7855	71.53335292	696.702	74.90954557
697.87	71.50568989	696.7851	74.88638694
697.9542	71.47788279	696.8686	74.86314518
698.0387	71.45018774	696.9549	74.8397279
698.1226	71.42263678	697.0393	74.81616282

698.2078	71.39514184	697.1228	74.79261621
698.2884	71.367823	697.2084	74.76930055
698.3718	71.34064024	697.2903	74.74640981
698.457	71.3133294	697.378	74.72371307
698.5398	71.2857144	697.46	74.70098861
698.6238	71.2582755	697.5455	74.67817177
698.7082	71.23096466	697.6278	74.65507781
698.7928	71.20354977	697.714	74.63173443
698.8774	71.17623093	697.7993	74.60826173
698.9606	71.14908818	697.885	74.58469665
699.0454	71.12208151	697.9658	74.56142717
699.13	71.09526695	698.0509	74.53844406
699.216	71.06809219	698.1378	74.51551637
699.2961	71.04061326	698.2196	74.49240393
699.3819	71.01304629	698.3047	74.46918988
699.464	70.98535124	698.3907	74.44582803
699.5466	70.95769622	698.4756	74.42223524
699.6309	70.93024131	698.5614	74.39849464
699.7126	70.90290646	698.6432	74.37492033
699.7951	70.87562764	698.7282	74.35156771
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700.4688	70.65643658	699.4019	74.16391541
700.5554	70.62931785	699.4839	74.14058127
700.6392	70.60226315	699.5675	74.1175612
700.7208	70.57512841	699.655	74.09477208
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701.3902	70.35546509	700.3284	73.90871788
701.476	70.32813824	700.4124	73.8854484
701.5606	70.30075537	700.496	73.86228978
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701.729	70.24542131	700.6644	73.81525199
701.815	70.21794239	700.7499	73.79148369
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701.981	70.16336074	700.9174	73.74384546
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702.3129	70.05376521	701.2545	73.65037033
702.3942	70.02573398	701.3375	73.62699001
702.4797	69.99792687	701.4228	73.60346188
702.564	69.97032788	701.5059	73.57995222
702.646	69.94268887	701.5928	73.55624858
702.7343	69.91522595	701.676	73.53236018
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703.4881	69.66757142	702.431	73.32148459
703.5722	69.6402766	702.5163	73.29807655
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703.7379	69.58546282	702.685	73.2516115
703.8224	69.55783181	702.7678	73.22833278
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703.9882	69.50266585	702.938	73.18112872
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704.1574	69.44762795	703.1031	73.13332422
704.2389	69.42033312	703.1879	73.10937116
704.3238	69.3932304	703.2706	73.08545505
704.4058	69.36599161	703.3578	73.06185302
704.4929	69.33845665	703.4407	73.03851888
704.5762	69.31073759	703.5246	73.01514779
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706.7482	68.59285164	705.7071	72.40093152
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707.0016	68.50952637	705.9586	72.33019933
707.085	68.48197541	706.0416	72.30651416
707.1674	68.45457653	706.1256	72.2824872
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709.5932	67.65310917	708.5526	71.59439796
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710.928	67.20978836	709.8904	71.21445608
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712.847	66.5725302	711.8108	70.66891202
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713.6825	66.29569182	712.6464	70.43113657
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721.364	63.73967939	720.2881	68.25692311
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722.1134	63.48921534	721.024	68.04619532
722.1982	63.4611521	721.1087	68.02243625
722.2842	63.43324894	721.1904	67.99889888
722.3639	63.40557791	721.2741	67.97550008
722.4488	63.37793089	721.3587	67.95219365
722.5297	63.35007576	721.4395	67.92893341
722.6147	63.3223567	721.5226	67.9057286
722.6974	63.29450157	721.6032	67.88245912
722.7816	63.26659842	721.6828	67.85920812
722.8624	63.23864723	721.768	67.83580008
722.948	63.21057598	721.8501	67.81218881
723.0318	63.1824407	721.9334	67.7887161
723.113	63.15432943	722.0168	67.76522493
723.1966	63.1264663	722.0986	67.74189079
723.2792	63.09880327	722.1802	67.71875064
723.3647	63.07120428	722.2641	67.69562896
723.4472	63.0434372	722.3476	67.67256271
723.5329	63.015462	722.4298	67.64955188
723.6147	62.98727069	722.5124	67.62628241
723.6999	62.95907937	722.5951	67.60284665
723.781	62.93110418	722.6776	67.57949404
723.8634	62.90332909	722.7594	67.55606752
723.9475	62.87575411	722.8411	67.53289042
724.0294	62.8481151	722.9234	67.50989807
724.1122	62.82041205	723.0042	67.48687801
724.1956	62.79266097	723.0874	67.46395956
724.2792	62.7647338	723.1703	67.44093026
724.3592	62.73682264	723.2546	67.4176885
724.4454	62.70881543	723.336	67.39425274
724.5296	62.68073618	723.4158	67.37085394
724.6108	62.65276098	723.4994	67.34752904
724.6975	62.6248178	723.581	67.3244166
724.778	62.59681059	723.662	67.30132264
724.8647	62.5690355	723.7457	67.27844114
724.9463	62.54108432	723.8285	67.25576287
725.0316	62.51298906	723.9108	67.23288137
725.117	62.48501386	723.9924	67.20977817
725.1984	62.45702265	724.0745	67.1864625
725.2813	62.42888737	724.1593	67.16332235
725.3612	62.40089617	724.2403	67.14021915
725.4476	62.37300101	724.3218	67.11710671
725.533	62.34515389	724.4044	67.09405894
725.6165	62.31752288	724.4866	67.07113125
725.6988	62.28979582	724.567	67.04823128
725.7811	62.26222084	724.6525	67.02525741
725.8652	62.23442974	724.734	67.00214497
725.9464	62.20641452	724.816	66.9789771
726.0316	62.17843132	724.898	66.95599399
726.1116	62.15067225	724.9811	66.93286308
726.1981	62.12283312	725.0626	66.90969522

726.2816	62.09503402	725.1422	66.88684143
726.3651	62.06736299	725.227	66.86409849
726.4488	62.03945983	725.3076	66.84164193
726.5303	62.01151666	725.39	66.81905603
726.6189	61.98330133	725.4737	66.79616529
726.6985	61.95525409	725.554	66.77313599
726.7812	61.9272789	725.6378	66.74993118
726.8644	61.89917563	725.7189	66.72662475
726.947	61.87117642	725.8031	66.70353079
727.0297	61.84353741	725.8818	66.68077862
727.114	61.81588239	725.9639	66.65808187
727.198	61.78816333	726.0445	66.63537589
727.2803	61.76057234	726.1284	66.61232811
727.365	61.73265318	726.2081	66.58918796
727.4492	61.70462995	726.2898	66.56617714
727.5321	61.67652669	726.3746	66.54320326
727.613	61.64841542	726.457	66.5204049
727.6948	61.62051226	726.5374	66.49758807
727.7798	61.59280121	726.6194	66.47469733
727.863	61.56501011	726.7018	66.45213915
727.9469	61.537179	726.7806	66.42977495
728.0288	61.50934788	726.8661	66.4074939
728.1132	61.48137268	726.9454	66.38515742
728.19 7	61.45333345	727.0288	66.3628117
728.2806	61.42529422	727.1112	66.34012419
728.3616	61.39730301	727.1916	66.31725193
728.4474	61.36944788	727.2738	66.29438891
728.5294	61.3416808	727.3548	66.27163673
728.6153	61.31392973	727.4366	66.2491894
728.6959	61.28606659	727.5184	66.22677902
728.779	61.25807539	727.602	66.20438711
728.8603	61.22996412	727.68	66.1820414
728.9462	61.20199692	727.7628	66.15947397
729.0298	61.17398971	727.8449	66.13669409
729.114	61.14591046	727.9259	66.11411743
729.1974	61.11803932	728.0092	66.09157772
729.2759	61.09025623	728.0884	66.0691581
729.3606	61.06246513	728.1691	66.04697866
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729.527	61.00682691	728.3332	66.00236113
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729.6938	60.9512207	728.4956	65.95698611
729.7774	60.92309342	728.578	65.93428936
729.8616	60.89499816	728.6598	65.91164804
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730.1938	60.78381777	728.986	65.82195109
730.2768	60.75605069	729.0678	65.79994716
730.361	60.72798744	729.1489	65.77774001
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730.5265	60.67178091	729.3118	65.73328875
730.6114	60.64362962	729.3908	65.71100769
730.6918	60.61551835	729.4735	65.68872664
730.7768	60.58753515	729.5568	65.66658414
730.8588	60.55976006	729.6372	65.64436775

730.9424	60.532041	729.7178	65.6223084
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731.1936	60.44853164	729.9605	65.55692477
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731.5281	60.33677494	730.284	65.46844718
731.6093	60.30932803	730.3652	65.44645249
731.6936	60.2814729	730.4422	65.42470721
731.7728	60.25346568	730.5284	65.40304508
731.8587	60.22529038	730.6094	65.3812259
731.9422	60.19710707	730.6882	65.35943444
732.0282	60.16906784	730.7672	65.33724576
732.1074	60.14121271	730.852	65.31499242
732.1934	60.11338959	730.9319	65.29293306
732.2764	60.08564652	731.0122	65.27103075
732.3604	60.0577994	731.0938	65.249267
732.4428	60.02980819	731.1743	65.22773419
732.5229	60.00200109	731.257	65.20621061
732.6102	59.97412194	731.3378	65.18476094
732.6921	59.94609072	731.42	65.16308957
732.7735	59.91801947	731.502	65.14103945
732.8581	59.88997223	731.5793	65.11933112
732.9412	59.8617409	731.6592	65.09779831
733.0238	59.83365364	731.7408	65.07614541
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733.1932	59.77787134	731.9015	65.03301513
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733.4422	59.69432996	732.1438	64.96865687
733.5245	59.66640279	732.2259	64.9472072
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733.775	59.58260527	732.4672	64.88213765
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735.271	59.08068463	733.919	64.49916585
735.3579	59.05277347	733.9959	64.47829814
735.438	59.02497437	734.0772	64.45739349
735.5237	58.9972473	734.1562	64.4368491

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735.688	58.94134494	734.3189	64.39539081
735.7731	58.91315363	734.3957	64.37475405
735.8565	58.88488227	734.4762	64.35410805
735.935	58.856771	734.5556	64.33325882
736.0211	58.82893188	734.6384	64.3122895
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737.6042	58.29877189	736.1536	63.92305461
737.6843	58.27094878	736.2334	63.90299058
737.771	58.24315768	736.3138	63.88330528
737.854	58.21535058	736.3926	63.86349066
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740.9329	57.1818852	739.3059	63.14692194
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741.097	57.12594281	739.4656	63.10965753
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749.9975	54.13671106	747.6512	61.40982177
750.0825	54.10908806	747.7247	61.39713857
750.1632	54.08144104	747.8012	61.38450155
750.247	54.05355389	747.8778	61.37170749
750.3318	54.02552266	747.95	61.35863631
750.4141	53.99766753	748.0262	61.34586073
750.4992	53.96970835	748.1012	61.33318676
750.5818	53.94170113	748.1794	61.32049432
750.6629	53.91382999	748.2536	61.30807901
750.7489	53.88587081	748.3282	61.29575607
750.8305	53.85797565	748.4004	61.28339618
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750.9952	53.80197723	748.5551	61.25903667
751.0776	53.77405807	748.6291	61.24654745
751.1598	53.74599482	748.703	61.2341968
751.247	53.71767544	748.7818	61.22185539
751.3275	53.68946812	748.855	61.2097172
751.411	53.66150893	748.9288	61.1978469
751.4944	53.63356575	749.003	61.18605975
751.5782	53.60575865	749.0785	61.17446658
751.6618	53.57799957	749.155	61.16296578
751.7455	53.55013643	749.2266	61.15107701
751.8308	53.52216924	749.3044	61.13928985
751.9118	53.49415402	749.3776	61.12759507
751.995	53.46622685	749.4519	61.11580791
752.0772	53.43839574	749.5282	61.10412236
752.1616	53.41058063	749.6046	61.0926031
752.246	53.38260543	749.6791	61.08115773
752.3294	53.35483835	749.7556	61.06984169
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753.1624	53.07582279	750.505	60.95799301
753.2442	53.04778356	750.5816	60.94722198
753.3258	53.01982437	750.6554	60.93638629
753.4096	52.99158503	750.7344	60.92547671
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753.8264	52.85131684	751.1081	60.87239754
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778.2116	44.67372277	774.4844	58.95384348
778.3007	44.64597169	774.5699	58.94848568
778.384	44.61833268	774.6556	58.94291542
778.4658	44.59066965	774.7395	58.93721583
778.5478	44.56281452	774.821	58.93164556
778.6318	44.53492737	774.9057	58.92590902
778.717	44.50694417	774.9898	58.92020943
778.7978	44.479009	775.0722	58.91443594
778.8803	44.45124191	775.1572	58.90872712
778.967	44.42353887	775.2401	58.90317533
779.0514	44.39587584	775.3232	58.89767896
779.1324	44.36847696	775.4089	58.89209946
779.2143	44.34088597	775.4926	58.88661234
779.2997	44.31323095	775.575	58.88089427
779.3813	44.28542384	775.661	58.87510231
779.4634	44.25749667	775.7419	58.86929187
779.5509	44.22955349	775.826	58.86324125
779.6309	44.20172238	775.9097	58.85751394
779.7144	44.17399531	775.9926	58.85207301
779.7997	44.14622823	776.0766	58.84642884
779.883	44.11846115	776.1582	58.84072001
779.9655	44.09062203	776.2461	58.83504814
780.0459	44.06280692	776.3311	58.82930236
780.1328	44.03485573	776.4132	58.82343649
780.2126	44.00684052	776.4952	58.8173674
780.3004	43.97892135	776.5806	58.81136297
780.3834	43.95107422	776.6624	58.80548786
780.4668	43.92309903	776.747	58.79964047
780.5491	43.89544401	776.8329	58.79385774
780.6332	43.86792506	776.9176	58.78823206
780.7165	43.84029405	777	58.78270798
780.8009	43.81261501	777.083	58.77699915
780.883	43.78472786	777.1661	58.77117024
780.9664	43.75671265	777.2545	58.76539675
781.0485	43.72878548	777.3331	58.75946622
781.1308	43.70093835	777.4184	58.75348026
781.217	43.67309923	777.504	58.74779915
781.2984	43.6454282	777.5888	58.74227507
781.3821	43.6176291	777.6712	58.73649234
781.4668	43.58996607	777.757	58.73058952
781.547	43.56219098	777.8375	58.72497307
781.63	43.53433585	777.92	58.71924577
781.7145	43.50651274	778.0051	58.713306
781.7968	43.4786496	778.0916	58.70710758
781.8811	43.45086651	778.1744	58.70092764
781.9639	43.42311544	778.2564	58.6950433
782.047	43.39554046	778.3411	58.68920514
782.1295	43.3681896	778.4228	58.68338546



782.214	43.34063863	778.5087	58.67778749
782.2968	43.31282353	778.593	58.67215256
782.3828	43.28517651	778.6755	58.6660188
782.466	43.25713728	778.7594	58.65981115
782.5478	43.22895397	778.847	58.65372358
782.6324	43.20089072	778.9314	58.64776534
782.7153	43.17301958	779.0126	58.64208422
782.7966	43.14531654	779.0982	58.63639387
782.8803	43.11758147	779.1828	58.6308236
782.9654	43.0896623	779.2679	58.62529953
783.047	43.06179116	779.3506	58.6195907
783.1303	43.03375994	779.432	58.61358627
783.214	43.00544856	779.515	58.60750794
783.2982	42.97734529	779.5978	58.60134647
783.3786	42.94952218	779.6831	58.59522195
783.4608	42.92187516	779.7671	58.58927295
783.5429	42.89419613	779.8518	58.58343479
783.6282	42.86662915	779.9337	58.57756893
783.7131	42.83925428	780.018	58.57161068
783.7965	42.81162327	780.1031	58.56545845
783.8788	42.78374413	780.189	58.55925079
783.965	42.75604108	780.273	58.55320941
784.0445	42.72841007	780.3578	58.54702023
784.1284	42.70071503	780.4402	58.5407202
784.2124	42.67298797	780.522	58.5345772
784.2989	42.64537297	780.608	58.52850811
784.3813	42.61774196	780.6911	58.52254987
784.4622	42.5900309	780.7772	58.51670248
784.54 6	42.56217577	780.8618	58.5105872
784.6296	42.5344327	780.9451	58.50440725
784.7115	42.50659358	781.031	58.49820883
784.7934	42.4786424	781.1138	58.49177024
784.8795	42.45077126	781.1965	58.48529469
784.9609	42.42309222	781.2824	58.47917017
785.0449	42.39538918	781.367	58.4731565
785.1284	42.36776617	781.4494	58.46726292
785.2119	42.34019119	781.5366	58.46124925
785.2968	42.3124081	781.6186	58.45498617
785.3806	42.2844249	781.7018	58.44880623
785.4624	42.25635365	781.7856	58.44252467
785.5458	42.22831442	781.8702	58.4360676
785.6308	42.20032322	781.955	58.42967519
785.7094	42.17254813	782.041	58.42332897
785.7931	42.14479705	782.1244	58.41708436
785.8745	42.11727811	782.2095	58.41098755
785.9595	42.08980718	782.2934	58.40477066
786.0426	42.06212815	782.3757	58.39844291
786.1259	42.03428102	782.4613	58.39221678
786.212	42.0064419	782.5431	58.38597217
786.2913	41.9786428	782.6266	58.37950586
786.3764	41.95094775	782.713	58.37310422
786.4622	41.92331675	782.7984	58.36676723
786.5429	41.89571775	782.884	58.36060576
786.6299	41.86823082	782.9675	58.35431497
786.713	41.84053578	783.051	58.34804265
786.7931	41.81279271	783.1358	58.34205669

786.8788	41.78494558	783.2187	58.33593217
786.9626	41.75709846	783.3016	58.32944739
787.0486	41.72929936	783.3861	58.3228887
787.1289	41.70146023	783.471	58.31629307
787.2112	41.67356508	783.5546	58.30975286
787.2944	41.64597409	783.6394	58.3034713
787.3787	41.61854319	783.723	58.29720822
787.4631	41.59096021	783.8082	58.29102827
787.5426	41.56324115	783.8922	58.28484833
787.6265	41.53528197	783.9778	58.27846516
787.712	41.50725874	784.0606	58.27204504
787.793	41.47916348	784.1449	58.26555101
787.88	41.45134837	784.2292	58.25891843
787.9634	41.42368535	784.3124	58.25252602
788.0426	41.39633449	784.397	58.24627217
788.1276	41.36875951	784.4796	58.2400368
788.2099	41.34080032	784.5678	58.23397695
788.2947	41.31293719	784.648	58.22781548
788.3768	41.2851621	784.732	58.22156163
788.46	41.25746706	784.8188	58.214966
788.5426	41.22989208	784.9024	58.20822256
788.626	41.20241315	784.9879	58.20153455
788.7085	41.17466208	785.0735	58.19475416
788.7914	41.14695903	785.1534	58.18821395
788.8746	41.11940806	785.2399	58.18175688
788.959	41.09189712	785.3244	58.17517048
789.0425	41.06440218	785.4075	58.16860256
789.1253	41.03678718	785.493	58.16200692
789.2102	41.00899609	785.5782	58.15535586
789.2916	40.98092484	785.6592	58.14888031
789.3761	40.95288561	785.7462	58.14242324
789.4597	40.92511052	785.8295	58.13605854
789.5416	40.89765561	785.9151	58.12963842
789.6222	40.8703928	786	58.12305202
789.7078	40.8427778	786.082	58.11635478
789.7906	40.81507475	786.1634	58.1098238
789.8732	40.78738771	786.2524	58.10349606
789.96	40.75942052	786.3386	58.09711289
790.043	40.73143732	786.4219	58.09051725
790.1259	40.70381431	786.504	58.08370915
790.2097	40.67625534	786.588	58.07696571
790.2916	40.64867236	786.675	58.07014837
790.3744	40.62112139	786.7589	58.0634696
790.46	40.59349038	786.8419	58.0571049
790.5418	40.56584337	786.926	58.05083258
790.6219	40.53805227	787.0087	58.04432932
790.7076	40.51018113	787.0947	58.03752122
790.7889	40.48243806	787.1806	58.03056532
790.873	40.45483907	787.2631	58.02343391
790.9603	40.42732812	787.3456	58.01650572
791.0398	40.39981718	787.4306	58.00955905
791.1244	40.37225021	787.5179	58.00269553
791.2032	40.34447512	787.5972	57.99607218
791.2889	40.31649192	787.6856	57.98925484
791.37	40.28859677	787.7714	57.98233589
791.4558	40.26081367	787.8578	57.97550931

791.5394	40.23300657	787.9406	57.9685996
791.6213	40.20515144	788.0232	57.96169912
791.706	40.17745639	788.1096	57.95479865
791.7882	40.14986541	788.192	57.94772266
791.8712	40.12251455	788.2805	57.94078523
791.9559	40.09501161	788.364	57.93405103
792.0342	40.06738861	788.4486	57.92723369
792.1186	40.03973358	788.5298	57.92050873
792.2032	40.01191047	788.6157	57.91377453
792.2881	39.98403133	788.6969	57.90682787
792.372	39.9561842	788.7851	57.89978883
792.4514	39.9285692	788.8695	57.8927775
792.534	39.90110628	788.9522	57.88596016
792.6184	39.87362735	789.0395	57.87937377
792.7047	39.84590029	789.1231	57.87275042
792.7874	39.81818924	789.2086	57.86609012
792.8684	39.7906863	789.2928	57.85944829
792.9537	39.76312733	789.3745	57.85268638
793.0394	39.73544029	789.4574	57.84590599
793.1209	39.70751312	789.5425	57.83915332
793.2032	39.67993014	789.6306	57.83219742
793.2866	39.65256327	789.7128	57.82496439
793.3694	39.62514838	789.797	57.81758356
793.457	39.59750937	789.8822	57.81031358
793.538	39.56986235	789.9674	57.8033392
793.6212	39.54216731	790.0534	57.79641101
793.7062	39.5141681	790.1326	57.78939969
793.7847	39.48612887	790.2176	57.78223132
793.8694	39.45836178	790.304	57.77489668
793.9546	39.43088286	790.389	57.76742347
794.0356	39.40349198	790.4725	57.76016273
794.1199	39.37605307	790.5572	57.75323454
794.2047	39.34832601	790.6407	57.7464172
794.2869	39.32047888	790.726	57.7396091
794.3731	39.29255972	790.8106	57.73256082
794.4538	39.26467257	790.8914	57.72542941
794.5357	39.23696152	790.9788	57.71843656
794.6199	39.20925046	791.061	57.71130514
794.705	39.18165147	791.149	57.70414601
794.7868	39.15416454	791.231	57.69697765
794.8686	39.12661358	791.3174	57.68963377
794.9522	39.09899858	791.402	57.68233607
795.0382	39.07128752	791.4836	57.67526008
795.1207	39.04352844	791.569	57.66825799
795.2047	39.01584941	791.6532	57.66115429
795.289	38.9882184	791.7379	57.65394898
795.3695	38.9606114	791.8226	57.64666052
795.4538	38.93314849	791.9072	57.63942749
795.5372	38.90560552	791.991	57.63206514
795.618	38.87801454	792.0806	57.62478592
795.7034	38.85045557	792.164	57.61768222
795.7866	38.82281655	792.247	57.61065241
795.8692	38.79524958	792.3337	57.60364109
795.9536	38.76760256	792.4168	57.59632492
796.0356	38.73977945	792.5011	57.58909189
796.1188	38.7120764	792.5849	57.58187734

796.1993	38.68453344	792.6706	57.57446879
796.2868	38.65707853	792.754	57.56688474
796.37	38.62970366	792.836	57.55948543
796.4536	38.60224074	792.9251	57.5520307
796.5368	38.57456971	793.0079	57.54464063
796.6176	38.54692269	793.0911	57.53730599
796.7024	38.51927567	793.176	57.52995287
796.7859	38.4915406	793.2624	57.52290459
796.8692	38.46395762	793.3466	57.51569928
796.9518	38.43640666	793.428	57.50822607
797.0356	38.40865558	793.5146	57.50064201
797.1201	38.38097655	793.5986	57.49308567
797.2042	38.35348161	793.6838	57.48556627
797.2862	38.32590663	793.7698	57.47814849
797.3704	38.29817957	793.8528	57.47089699
797.4532	38.27029242	793.937	57.46369167
797.5376	38.24239727	794.0218	57.45624618
797.6204	38.21467821	794.1082	57.44828338
797.7028	38.1872233	794.1895	57.44022821
797.7882	38.15988045	794.2762	57.43237626
797.8678	38.13268167	794.3598	57.42476449
797.9551	38.10532281	794.4446	57.41736518
798.0359	38.07762777	794.5297	57.40991969
798.1192	38.0498927	794.6121	57.40259428
798.2047	38.02212562	794.6952	57.39531507
798.2884	37.99438255	794.783	57.3877033
798.3712	37.96683158	794.8658	57.38011924
798.4525	37.93963281	794.9515	57.37284926
798.5394	37.91221792	795.035	57.36553309
798.622	37.88455489	795.118	57.35796751
798.7045	37.85693189	795.2018	57.35038345
798.7826	37.82939693	795.289	57.34284558
798.8695	37.80178193	795.3731	57.33537238
798.9516	37.77426298	795.4566	57.32807468
799.0328	37.74689611	795.5439	57.3208047
799.1203	37.7194332	795.6266	57.31359015
799.2031	37.69175416	795.7112	57.30595067
799.2864	37.6640351	795.7953	57.29804329
799.3732	37.63647613	795.8806	57.29013592
799.4539	37.60893317	795.9634	57.28235788
799.5371	37.58123012	796.0503	57.27471839
799.6192	37.55327894	796.1339	57.26707891
799.701	37.52542381	796.2188	57.25976274
799.787	37.49749664	796.3039	57.25215097
799.8713	37.46954546	796.3853	57.24422512
799.9547	37.44185842	796.4712	57.23616995
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800.1197	37.38709267	796.6395	57.22074318
800.2026	37.35942964	796.7239	57.21298361
800.2856	37.33167857	796.808	57.20512243
800.3686	37.30391148	796.8925	57.19724277
800.4542	37.27618442	796.976	57.189631
800.5356	37.2485214	797.0602	57.18185295
800.6197	37.22096243	797.1462	57.1740749
800.7025	37.19346749	797.2313	57.16637999
800.7875	37.1660606	797.3163	57.15852805

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801.1206	37.05568865	797.6538	57.12668609
801.2045	37.02823374	797.7394	57.1190928
801.2918	37.00061073	797.8235	57.11122237
801.3739	36.97288367	797.9074	57.10315796
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801.5412	36.91786178	798.0766	57.08693676
801.6235	36.89037485	798.1594	57.07890006
801.7032	36.86301599	798.2472	57.07106659
801.7869	36.8356091	798.331	57.06329778
801.8715	36.80806614	798.4151	57.05551973
801.9528	36.78047515	798.5008	57.04781559
802.0368	36.75269206	798.5851	57.04033314
802.121	36.72492498	798.6685	57.0327768
802.2063	36.69737401	798.755	57.02498028
802.2887	36.66995112	798.8382	57.0169251
802.3704	36.6426723	798.9221	57.00857433
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802.622	36.55977127	799.1739	56.98401159
802.7053	36.53216427	799.2592	56.9760765
802.7897	36.50435717	799.345	56.9681137
802.8711	36.47667013	799.4278	56.95979988
802.9522	36.44906313	799.5121	56.95154148
803.039	36.42156019	799.5974	56.94328307
803.122	36.3941373	799.6808	56.9350801
803.2034	36.36655431	799.768	56.92697874
803.2876	36.33916343	799.85	56.91908984
803.3688	36.31175655	799.938	56.91125637
803.4535	36.28414155	800.02	56.90341366
803.5376	36.25654255	800.1054	56.89546933
803.6225	36.22889554	800.1913	56.88740492
803.7038	36.20141661	800.275	56.8793867
803.7878	36.17421784	800.3599	56.87122067
803.8743	36.14686698	800.4463	56.86297151
803.9534	36.119292	800.5297	56.85467616
804.0374	36.091677	800.6138	56.84636233
804.1207	36.06393393	800.7003	56.83812241
804.2055	36.03611882	800.784	56.83003952
804.29	36.00829571	800.8681	56.82195663
804.372	35.98044058	800.9507	56.81381832
804.4568	35.95280957	801.0338	56.80557839
804.5394	35.92527461	801.1215	56.79710753
804.6243	35.89778768	801.2045	56.78862742
804.7062	35.87031676	801.2861	56.78014732
804.7884	35.84266974	801.3722	56.77168569
804.8762	35.8149827	801.4564	56.76350119
804.9574	35.78735969	801.5434	56.75543678
805.039	35.75977671	801.6274	56.74741856
805.1243	35.7321457	801.714	56.73931719
805.2042	35.70462675	801.7964	56.73090175
805.2864	35.67717184	801.8828	56.72248631
805.3711	35.64983699	801.9675	56.71419096
805.4551	35.62243811	802.0499	56.70589561

805.5386	35.59487914	802.1347	56.6977573
805.6225	35.56740021	802.2192	56.68960051
805.7058	35.53982523	802.3043	56.68147144
805.7882	35.51204214	802.392	56.67331465
805.8699	35.48423504	802.4741	56.66501006
805.9546	35.45672409	802.5578	56.65640063
806.037	35.42937324	802.644	56.64776349
806.1228	35.40214244	802.7268	56.63915406
806.2086	35.37470354	802.8094	56.63044302
806.2929	35.34704051	802.8974	56.62168579
806.3734	35.31944152	802.9788	56.61318721
806.4569	35.29181051	803.0655	56.604781
806.5405	35.26427555	803.1504	56.59633785
806.6251	35.23682064	803.2346	56.58794089
806.7072	35.20934972	803.3172	56.57935917
806.789	35.18181476	803.4048	56.57086983
806.872	35.15443989	803.4887	56.56247286
806.958	35.12708103	803.5741	56.55378953
807.0438	35.09969015	803.6584	56.54513392
807.1261	35.07225125	803.743	56.53680162
807.2068	35.04470028	803.828	56.52843236
807.2903	35.01706927	803.9114	56.52026634
807.3738	34.98940625	803.9956	56.51194327
807.4585	34.96168719	804.0824	56.50327842
807.5394	34.93412822	804.1674	56.49468746
807.6241	34.90671333	804.2512	56.48594871
807.7075	34.87929843	804.3359	56.4770991
807.7916	34.85169944	804.4191	56.4684712
807.8731	34.82398039	804.505	56.45991719
807.9561	34.79630936	804.5869	56.45128929
808.039	34.76856629	804.67	56.44265215
808.1238	34.74083922	804.7554	56.43391339
808.205	34.71333628	804.84	56.42525777
808.2903	34.68616152	804.9272	56.41655597
808.3731	34.65884268	805.0081	56.40774331
808.4568	34.63146781	805.098	56.39893066
808.5415	34.60385281	805.1816	56.39021038
808.623	34.57608573	805.264	56.38147162
808.708	34.54833466	805.3487	56.37295457
808.7924	34.52067163	805.4345	56.36441904
808.8748	34.4930006	805.5186	56.35569876
808.9558	34.46545764	805.6025	56.34683991
809.0394	34.43782663	805.685	56.33792564
809.1241	34.41006755	805.77	56.32907604
809.2082	34.38258862	805.8562	56.32011558
809.2896	34.3551097	805.9418	56.31120131
809.373	34.32760676	806.0222	56.30237942
809.4536	34.30030393	806.1095	56.29378846
809.5402	34.27272895	806.1938	56.28507742
809.6246	34.24488182	806.2782	56.27648647
809.7084	34.21730684	806.364	56.26784932
809.7891	34.18989195	806.4452	56.25910133
809.8734	34.1625571	806.5312	56.25035334
809.9571	34.13515021	806.6153	56.24144831
810.0408	34.10767929	806.6984	56.23249709
810.121	34.08020036	806.7842	56.22360129

810.2066	34.05259337	806.8671	56.21481635
810.291	34.02457015	806.9556	56.2061053
810.375	33.99690712	807.0398	56.19737579
810.4594	33.9696203	807.1228	56.18827677
810.5439	33.94222942	807.2066	56.17927012
810.6249	33.91480652	807.2901	56.17022652
810.7112	33.88735961	807.3768	56.16100741
810.795	33.85988869	807.4632	56.15175135
810.8766	33.8322897	807.5497	56.14266157
810.96	33.80445058	807.6324	56.13373806
811.0437	33.77662746	807.7152	56.12482379
811.125	33.7490845	807.7984	56.1158541
811.2114	33.72156555	807.8842	56.10687517
811.2953	33.6940306	807.9678	56.09791471
811.3795	33.66657568	808.052	56.08888035
811.458	33.63904873	808.1361	56.07982752
811.5416	33.61147375	808.2228	56.07071926
811.6261	33.58392279	808.3056	56.0616849
811.7107	33.55638783	808.3913	56.05279834
811.7929	33.52877283	808.4751	56.04385636
811.876	33.5011018	808.5615	56.03472963
811.9556	33.47353482	808.6438	56.02549204
812.0422	33.44601588	808.7284	56.01638378
812.128	33.41850493	808.8119	56.007294
812.2124	33.39116208	808.8985	55.99824116
812.293	33.36382723	808.986	55.98911443
812.3738	33.33630028	809.0676	55.97991379
812.4581	33.30855721	809.1538	55.97082401
812.544	33.28073409	809.2364	55.96162338
812.6261	33.2531351	809.3225	55.95224723
812.709	33.22567219	809.4078	55.94324058
812.7921	33.19820927	809.489	55.93440945
812.8753	33.17089043	809.575	55.92536585
812.9585	33.14347554	809.6595	55.91614674
813.0425	33.11594058	809.7405	55.90662279
813.1274	33.08832558	809.8269	55.89715427
813.2095	33.06083064	809.9113	55.88797211
813.294	33.0333197	809.996	55.87893775
813.3774	33.00587279	810.0797	55.87000501
813.4606	32.97829781	810.1674	55.86134015
813.5439	32.95055474	810.25	55.85239817
813.6268	32.92299577	810.3339	55.84306821
813.7116	32.89549283	810.4176	55.83373825
813.7945	32.8680059	810.5031	55.82434362
813.8774	32.84047094	810.587	55.81496747
813.9611	32.81284794	810.6708	55.80565599
814.045	32.78512088	810.7568	55.79645535
814.127	32.75740182	810.8397	55.78723624
814.2097	32.72971478	810.9264	55.77801713
814.2944	32.70229188	811.008	55.7685948
814.3795	32.67518916	811.0898	55.75917246
814.4613	32.64781429	811.1791	55.74985174
814.5424	32.62032736	811.261	55.74027236
814.6258	32.59295249	811.3472	55.73074841
814.7095	32.56532148	811.433	55.72135379
814.792	32.53751438	811.5172	55.71209773

814.8788	32.50977131	811.5994	55.70280472
814.9615	32.48224436	811.689	55.69342857
815.0451	32.45484547	811.7718	55.68396928
815.1274	32.42731852	811.8561	55.67453771
815.2128	32.39977556	811.9387	55.66511537
815.2929	32.37247273	812.0255	55.65550828
815.3774	32.34496979	812.1088	55.64595662
815.4599	32.31723472	812.1952	55.63652504
815.5444	32.2895717	812.2764	55.62724127
815.6262	32.26198071	812.3606	55.61785588
815.7114	32.23448577	812.4447	55.60863677
815.794	32.20702285	812.5307	55.59925139
815.877	32.17954393	812.6176	55.5895704
815.9626	32.15220108	812.7051	55.57998178
816.0434	32.12482621	812.786	55.57019918
816.1269	32.09730726	812.8704	55.56043505
816.2109	32.06966824	812.954	55.5507633
816.2961	32.0419812	813.0401	55.54118393
816.3816	32.0143662	813.1226	55.53169693
816.4636	31.9869353	813.2065	55.52236696
816.5462	31.95944837	813.2908	55.51284301
816.6311	31.93192142	813.378	55.50342992
816.7141	31.90441848	813.4598	55.49407224
816.8	31.87698758	813.5452	55.48430811
816.883	31.84942061	813.629	55.47461789
816.9656	31.82175758	813.7139	55.46488147
817.0514	31.79419861	813.7988	55.45520048
817.134	31.76676771	813.885	55.44557492
817.2178	31.73928878	813.969	55.43594936
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817.3863	31.68443499	814.1362	55.41655966
817.466	31.65714016	814.2205	55.40679554
817.55	31.62967724	814.3046	55.39711455
817.6306	31.60190215	814.3906	55.38741508
817.716	31.57427114	814.4741	55.37766943
817.8026	31.54665614	814.5606	55.36817319
817.8863	31.51901713	814.643	55.35856611
817.9682	31.49129807	814.7286	55.34887588
818.0532	31.46366706	814.8134	55.33937964
818.1348	31.43614812	814.8985	55.33012358
818.2196	31.40879726	814.9834	55.32060887
818.3028	31.38136636	815.0664	55.31066923
818.3868	31.35380739	815.1524	55.30054483
818.4692	31.32628844	815.235	55.29066062
818.5524	31.29872147	815.3176	55.28094268
818.6374	31.27127456	815.405	55.27120626
818.7182	31.24377962	815.4888	55.26168231
818.8034	31.21646078	815.572	55.25228769
818.8852	31.18915795	815.6561	55.24254204
818.9684	31.16169503	815.7403	55.23258392
819.0532	31.134016	815.8281	55.22254266
819.1369	31.10652907	815.9094	55.21266769
819.2188	31.0791622	815.993	55.20297746
819.3055	31.05170729	816.0776	55.19324104
819.3876	31.02398023	816.164	55.18334759
819.4706	30.99622115	816.2486	55.17350956



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819.801	30.88605731	816.5866	55.13400965
819.8874	30.85863441	816.6666	55.12400534
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820.2188	30.7483505	817.0055	55.08469018
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820.721	30.58374109	817.509	55.02486758
820.8038	30.55639824	817.5952	55.01451225
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826.396	28.7115321	823.2455	54.32544382
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830.32	27.41931817	827.2035	53.82382447
830.4018	27.39207137	827.2884	53.81290565
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830.5708	27.33724959	827.4569	53.79108647
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831.1555	27.1439606	828.0464	53.71550455
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831.6572	26.97806248	828.553	53.65012092
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832.3255	26.75792691	829.2269	53.56147705
832.41	26.73045598	829.3126	53.55053051
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832.5753	26.6754501	829.4793	53.52888685
832.6601	26.6480032	829.5609	53.5181343
832.7457	26.62049225	829.6451	53.50695683
832.828	26.59309337	829.7297	53.49578858
832.9111	26.56561444	829.8148	53.48478662
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834.4121	26.06976109	831.3282	53.28540258
834.4952	26.04206605	831.4144	53.27424358
834.5811	26.0145471	831.4972	53.26314
834.6626	25.98727629	831.5826	53.25188862
834.7468	25.95985339	831.6668	53.24087742
834.8297	25.93236646	831.747	53.2298108
834.9144	25.90492756	831.8324	53.21855942
834.9995	25.87745663	831.9153	53.20741889
835.0799	25.84991367	832.0034	53.19624141
835.1644	25.82229067	832.0874	53.18499003
835.2516	25.7945476	832.1708	53.17373865
835.335	25.76692459	832.2562	53.16252423
835.4189	25.73935762	832.3378	53.15121742
835.5007	25.71182266	832.423	53.14003071
835.5828	25.68444779	832.5068	53.12896408
835.6684	25.65718498	832.5906	53.11818382
835.751	25.62963402	832.6732	53.10726499
835.8324	25.60191496	832.759	53.09588429
835.9178	25.57424393	832.8421	53.08450358
836.0014	25.5465729	832.927	53.0731783
836.0847	25.51900592	833.0088	53.06178836
836.1674	25.49147897	833.0969	53.05049079
836.2501	25.46379994	833.1814	53.03936874
836.336	25.43625697	833.2605	53.02844991
836.4201	25.40876204	833.3465	53.01753109
836.5032	25.38122708	833.432	53.00619657
836.5894	25.3538362	833.5155	52.99483434
836.6719	25.3263973	833.5978	52.98361991
836.7555	25.29877429	833.683	52.9721376
836.8401	25.27108725	833.7644	52.96051671
836.9228	25.24348826	833.8474	52.94921915
837.0066	25.21592129	833.9328	52.93803243
837.089	25.18856243	834.0168	52.92667944
837.1744	25.16106749	834.1012	52.91529873
837.2572	25.13370063	834.1856	52.90394574
837.342	25.10623771	834.2694	52.89262046
837.425	25.07856668	834.3512	52.88107348
837.5094	25.05091966	834.4368	52.86958193
837.5924	25.02335269	834.5215	52.85825665
837.6766	24.99584174	834.6022	52.84693137
837.759	24.96822674	834.69	52.83556914
837.8418	24.94063575	834.77	52.82433623
837.9255	24.9131008	834.8582	52.81329732
838.0099	24.88581397	834.9439	52.80209213
838.0962	24.85830303	835.0238	52.79082227
838.1806	24.83051994	835.1112	52.77940462

838.2616	24.80295296	835.1926	52.76804239
838.3461	24.77537799	835.2782	52.75664321
838.4301	24.74759489	835.3597	52.74524403
838.513	24.71987584	835.4428	52.73408503
838.5957	24.69250897	835.5295	52.72297221
838.6812	24.66515811	835.6126	52.71172083
838.7648	24.63778324	835.696	52.70037708
838.8462	24.61025629	835.778	52.68906104
838.9274	24.58264129	835.8644	52.67763414
839.0126	24.55506631	835.9485	52.66618878
839.0951	24.52726721	836.0343	52.65491892
839.179	24.49946811	836.1206	52.64339042
839.2626	24.47212526	836.2024	52.63193581
839.3499	24.44492648	836.2844	52.62051815
839.4349	24.41753561	836.3707	52.6090266
839.5188	24.3900967	836.4544	52.59742419
839.6022	24.36272183	836.5382	52.58604349
839.6828	24.33509082	836.6212	52.57457964
839.7656	24.30747582	836.7047	52.56290334
839.8499	24.28002091	836.7869	52.5511716
839.9322	24.25259001	836.8711	52.53931054
840.0168	24.22522314	836.9569	52.5277728
840.1009	24.19768818	837.041	52.51631819
840.1858	24.17000915	837.1254	52.50485435
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840.8584	23.94922522	837.7972	52.41261706
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841.4401	23.75656056	838.3839	52.33309069
841.5204	23.72910565	838.466	52.3218116
841.6056	23.70170677	838.5514	52.310357
841.6876	23.67418782	838.6336	52.29903172
841.7754	23.64652479	838.7189	52.28742007
841.8598	23.61882975	838.8042	52.27559596
841.9409	23.59128679	838.8882	52.26415983
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842.1899	23.5082897	839.1366	52.22911243
842.2747	23.48055464	839.2205	52.21731604
842.3625	23.45288361	839.3058	52.20563973
842.4421	23.42529262	839.3903	52.19400037
842.5289	23.39771764	839.4744	52.18247187
842.61	23.37035878	839.5558	52.17131286
842.6946	23.34286384	839.6416	52.16003377
842.7778	23.31523283	839.7243	52.14854222
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843.2792	23.14995105	840.2303	52.07921414
843.3639	23.12240009	840.3141	52.0676025
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843.5324	23.06680989	840.4798	52.04458243
843.6131	23.03911485	840.5603	52.03274909
843.6991	23.01134776	840.6476	52.02095269
843.7831	22.98369274	840.7305	52.00917477
843.8669	22.9561818	840.8153	51.99729524
843.9495	22.92863884	840.8984	51.98562817
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844.5366	22.73572605	841.4859	51.90451293
844.6191	22.70819109	841.5701	51.89274425
844.7024	22.68063212	841.6549	51.88104946
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846.7972	21.98996095	843.7468	51.58965908
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862.4676	16.81539012	859.3724	49.3794375
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862.6378	16.76000003	859.5391	49.35599251
862.7186	16.73210488	859.6244	49.34428849
862.8048	16.70430578	859.7056	49.3326399
862.8889	16.67656271	859.7884	49.32094512
862.9706	16.64877161	859.8746	49.30902863
863.0543	16.62107657	859.9566	49.29715833
863.1412	16.59346957	860.0389	49.28558364
863.2242	16.56597464	860.12	49.27400895
863.3076	16.53832762	860.2035	49.26221255
863.3912	16.51060056	860.285	49.25049005
863.4746	16.48292152	860.3691	49.23871213
863.5585	16.45529852	860.4548	49.22694345
863.643	16.42743538	860.5389	49.21519324
863.7278	16.39954823	860.6201	49.20347075
863.8109	16.37188521	860.7076	49.19191453
863.8953	16.34423819	860.7891	49.18034907
863.9797	16.31659117	860.8722	49.16826631
864.0608	16.28877606	860.9547	49.15610965
864.1458	16.26096095	861.0392	49.14408231
864.23	16.23323389	861.1222	49.13215659
864.3141	16.2052667	861.2053	49.1203879
864.3966	16.17730751	861.2875	49.10873931
864.4814	16.14954043	861.3716	49.09718309
864.5649	16.1216773	861.4553	49.08549755
864.6459	16.09386219	861.5349	49.07365496
864.7324	16.06601506	861.6208	49.06168305
864.817	16.03815993	861.7047	49.04980352
864.9016	16.01040885	861.7882	49.03826577
864.9851	15.98266578	861.872	49.02661718
865.0695	15.95486668	861.9554	49.0149963
865.1506	15.92713962	862.0361	49.00343084
865.238	15.89924447	862.1235	48.99157902
865.3222	15.8713173	862.2031	48.97979186
865.4041	15.84361425	862.2858	48.96798622
865.4894	15.81603127	862.3699	48.95618983
865.5712	15.78840026	862.4499	48.9446059
865.6564	15.76055313	862.5356	48.93311434
865.7415	15.73279405	862.6197	48.92127176
865.8244	15.70506699	862.7005	48.90967859
865.909	15.67708379	862.7844	48.89812237
865.9941	15.64918063	862.868	48.88657539
866.0759	15.6213255	862.9512	48.87500069
866.1603	15.59350239	863.0362	48.86318582
866.2444	15.56573531	863.1188	48.85138019
866.3274	15.53789619	863.2051	48.8396854

866.4118	15.51000904	863.2844	48.82790748
866.4928	15.48228998	863.3682	48.81601871
866.5778	15.4543468	863.4512	48.80432393
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866.747	15.39836439	863.6184	48.78092513
866.8316	15.37051726	863.7031	48.76918415
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868.425	14.84231835	865.2848	48.54805484
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868.6759	14.7584728	865.5332	48.51297049
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870.4413	14.17350705	867.2798	48.26961555
870.5282	14.14541979	867.3612	48.25810552
870.6103	14.11730052	867.4439	48.24666939
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870.7782	14.06170232	867.609	48.22332601
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872.6249	13.44825709	869.4392	47.97016999
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872.792	13.39279497	869.6041	47.94728849
872.8772	13.36501988	869.6898	47.93567685
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892.3768	6.850770138	888.8806	45.46580523
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991.0912	-3.9780921	990.5954	42.75394583
991.18	-3.978250586	990.675	42.75389041
991.2616	-3.978492317	990.7566	42.75356709
991.3457	-3.978820495	990.8461	42.7532992
991.4301	-3.97910545	990.9286	42.75323454
991.5129	-3.979284747	991.0113	42.75323454
991.5958	-3.979462444	991.0931	42.75324378
991.6806	-3.979704175	991.1788	42.75326225
991.7626	-3.97995231	991.2638	42.75308674
991.8464	-3.980234063	991.3472	42.75294818
991.9293	-3.98039335	991.4284	42.75273571
992.0126	-3.980523821	991.5148	42.75261562
992.0956	-3.980554237	991.5954	42.75274495
992.1813	-3.980586254	991.6785	42.75283732
992.2631	-3.980639083	991.763	42.75272647
992.3469	-3.980888819	991.8455	42.75235697
992.4293	-3.981229004	991.9291	42.75201518
992.5116	-3.981360275	992.0106	42.75191357
992.5961	-3.981441119	992.0972	42.75195052
992.6791	-3.981538772	992.1786	42.7518489
992.7634	-3.981747685	992.2645	42.75182119
992.8509	-3.982055853	992.3462	42.75168263
992.9305	-3.982444864	992.4319	42.75150711
993.0152	-3.982760235	992.5132	42.75124846
993.0954	-3.983001166	992.5954	42.75111913
993.1809	-3.983157251	992.6789	42.75119303
993.2672	-3.983254104	992.762	42.75104523
993.3472	-3.983439004	992.8458	42.75089743

993.4334	-3.983517447	992.9298	42.75074963
993.5153	-3.983666328	993.012	42.75048174
993.597	-3.983925668		

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Figure 2 shows the breakthrough curves of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs (Figure 2a), retention profiles of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs (Figure 2b), breakthrough curve of carboxymethylcellulose (CMC; Figure 2c), and hydrodynamic radii of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs (Figure 2d), in 1 mM NaCl at pH 7.3. Breakthrough curve describes the normalized effluent concentration ( $C/C_0$ ; where  $C_0$  is the initial influent concentration) of nanomaterials as a function of pore volume in packed-column experiments. Retention profile describes the normalized solid-phase retention concentration of nanomaterials as a function of distance from the column inlet.

**Figure 2a.** Breakthrough curves of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs as a function of pore volume (PV)

**Breakthrough curve of CNT at 1 mM NaCl**

PV	$C/C_0$ (Mean value)	$C/C_0$ (STD)
0.5	0.0151	0.0053
1	0.0077	0.0032
1.5	0.3918	0.0088
2	0.4066	0.0019
2.5	0.4007	0.0014
3	0.4041	0.0002
3.5	0.6545	0.0574
4	0.9349	0.0203
4.5	0.7400	0.0293
5	0.4905	0.1040
5.5	0.3466	0.0112
6	0.2505	0.0306
6.5	0.1921	0.0533
7	0.1425	0.0800
7.5	0.1027	0.0533
8	0.0675	0.0613
8.5	0.0452	0.0027
9	0.0344	0.0080
9.5	0.0275	0.0080
10	0.0211	0.0053

Note:  $C/C_0$  (Mean value) refers to the mean value of  $C/C_0$  from duplicate experiments. STD refers to standard deviation of  $C/C_0$  from duplicate experiments.

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mM NaCl**

PV	$C/C_0$ (Mean value)	$C/C_0$ (STD)
0.5	-0.0049	0.0003
1	0.0079	0.0279
1.5	0.2748	0.0124
2	0.2749	0.0019
2.5	0.2724	0.0003
3	0.2735	0.0003
3.5	0.3817	0.0287
4	0.4487	0.0645
4.5	0.6971	0.0699
5	0.7116	0.0392
5.5	0.4378	0.0805
6	0.3221	0.0088



6.5	0.3161	0.0038
7	0.2758	0.0028
7.5	0.0795	0.0059
8	0.0038	0.0139
8.5	0.0130	0.0045
9	0.0119	0.0090
9.5	0.0040	0.0077
10	-0.0075	0.0054

Note:  $C/C_o$  (Mean value) refers to the mean value of  $C/C_o$  from duplicate experiments. STD refers to standard deviation of  $C/C_o$  from duplicate experiments.

**Figure 2b.** Retention profiles of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs as a function of distance (depth) from the column inlet

**Retention profile of CNT at 1 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.0767	0.0062
1.5	0.0627	0.0018
2.5	0.0492	0.0041
3.5	0.0357	0.0024
4.5	0.0254	0.0043
5.5	0.0207	0.0021
6.5	0.0169	0.0023
7.5	0.0138	0.0010
8.5	0.0133	0.0012
9.5	0.0127	0.0006

Note:  $S/C_o$  (Mean value) refers to the mean value of  $S/C_o$  from duplicate experiments. STD refers to standard deviation of  $S/C_o$  from duplicate experiments.

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.3345	0.0137
1.5	0.2880	0.0007
2.5	0.2564	0.0193
3.5	0.1909	0.0484
4.5	0.1940	0.0009
5.5	0.1270	0.0005
6.5	0.1173	0.0029
7.5	0.1157	0.0024
8.5	0.1449	0.0025
9.5	0.1057	0.0035

Note:  $S/C_o$  (Mean value) refers to the mean value of  $S/C_o$  from duplicate experiments. STD refers to standard deviation of  $S/C_o$  from duplicate experiments.

**Figure 2c.** Breakthrough curve of carboxymethylcellulose (CMC) as a function of pore volume (PV)

**Breakthrough curve of CMC at 1 mM NaCl**

PV	C/C <sub>o</sub> (Mean value)	C/C <sub>o</sub> (STD)
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0.5	-0.03498	0.01463
1	0.06987	0.02663
1.5	0.62179	0.10464
2	0.64109	0.10583
2.5	0.64454	0.11006
3	0.64455	0.10831
3.5	0.75419	0.10853
4	1.01338	0.06945
4.5	0.78243	0.13866
5	0.43615	0.07228
5.5	0.36849	0.12032
6	0.28577	0.08469
6.5	0.19438	0.13446
7	0.13964	0.15084
7.5	0.07653	0.12747
8	0.05723	0.08298
8.5	0.02014	0.06791
9	0.00918	0.05164
9.5	0.00322	0.04226
10	-0.0079	0.03223

**Figure 2d.** Hydrodynamic radii ( $r_h$ ) of CNT and CNT-Fe<sub>3</sub>O<sub>4</sub> NHs as a function of pore volume (PV)

**Hydrodynamic radius ( $r_h$ ) of CNT at 1 mM NaCl**

PV	$r_h$ (Mean value)	$r_h$ (STD)
1	477.7425	92.32472
1.5	1280.30769	45.55516
2	1253.44118	76.01807
2.5	1261.83333	7.97392
3	1284.14706	51.89947
3.5	1307.29167	44.1096
4	1345.33333	53.00526
4.5	1384.29167	52.00772
5	327.56042	15.30963
5.5	331.31667	13.36761
6	337.12292	32.50019
6.5	280.16154	15.84406
7	245.85417	11.44696
7.5	260.89167	10.50371
8	227.88333	28.33759
8.5	149.69792	8.12129
9	178.86667	16.56457
9.5	183.88684	12.35844

Note:  $r_h$  (Mean value) refers to the mean value from duplicate experiments. STD refers to standard deviation from duplicate experiments.

**Hydrodynamic radius ( $r_h$ ) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mM NaCl**

PV	$r_h$ (Mean value)	$r_h$ (STD)
1	640.08824	38.43998
1.5	1404.0625	45.60734

2	1429.47619	76.38414
2.5	1429.375	58.61872
3	1457.875	88.97233
3.5	1496.9375	58.17427
4	1533.60417	64.50952
4.5	1570.41935	60.82613
5	914.5875	51.4866
5.5	365.8875	38.95891
6	332.10417	17.4417
6.5	325.31042	31.9266
7	289.7625	21.86078
7.5	286.99167	20.96646
8	288.54375	14.04714
8.5	233.95417	11.20178
9	201.32292	9.13436
9.5	209.10208	82.903
10	203.38438	21.97666

Note:  $r_h$  (Mean value) refers to the mean value from duplicate experiments. STD refers to standard deviation from duplicate experiments.

Figure 3 shows the breakthrough curves (Figure 3a, 3c, 3e, and 3g) and retention profiles (Figure 3b, 3d, 3f, and 3h) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in water-saturated sand columns under different concentrations of NaCl (0, 1, 10, and 50 mM; Figure 3a–b), CaCl<sub>2</sub> (0, 0.33, 1.67, and 3.33 mM; Figure 3c–d), SRHA (0, 1, and 10 mg C/L; Figure 3e–f), and SRFA (0, 1, and 10 mg C/L; Figure 3g–h). Other column transport parameters include: injection volumes of CNT-Fe<sub>3</sub>O<sub>4</sub> NH influent = 3 PVs (marked by dash lines in Figure 3a, 3c, 3e, and 3g); influent concentration = 10 mg/L, influent pH = 7.3; average sand grain size = 360 μm; and Darcy velocity = 0.44 cm/min. The error bars represent the standard deviations from duplicate experiments.

**Figure 3a and 3b.** Breakthrough curve (Figure 3a) and retention profile (Figure 3b) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in water-saturated sand columns under different concentrations of NaCl (0, 1, 10, and 50 mM)

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mM NaCl**

PV	C/C <sub>o</sub> (Mean value)	C/C <sub>o</sub> (STD)
0.5	0.0343	0.0225
1	0.0614	0.0217
1.5	0.2181	0.0006
2	0.2399	0.0194
2.5	0.2309	0.0105
3	0.2334	0.0079
3.5	0.2629	0.0162
4	0.6228	0.0537
4.5	0.7294	0.1333
5	0.8655	0.0311
5.5	0.6006	0.0121
6	0.2910	0.0559
6.5	0.2803	0.0680
7	0.1924	0.0079
7.5	0.0755	0.0106
8	0.0868	0.0162
8.5	0.0736	0.0384
9	0.0752	0.0463
9.5	0.0773	0.0236
10	0.0448	0.0341

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mM NaCl**

PV	C/C <sub>o</sub> (Mean value)	C/C <sub>o</sub> (STD)
0.5	-0.0049	0.0003
1	0.0079	0.0279
1.5	0.2748	0.0124
2	0.2749	0.0019
2.5	0.2724	0.0003
3	0.2735	0.0003
3.5	0.3817	0.0287
4	0.4487	0.0645
4.5	0.6971	0.0699
5	0.7116	0.0392
5.5	0.4378	0.0805

6	0.3221	0.0088
6.5	0.3161	0.0038
7	0.2758	0.0028
7.5	0.0795	0.0059
8	0.0038	0.0139
8.5	0.0130	0.0045
9	0.0119	0.0090
9.5	0.0040	0.0077
10	-0.0075	0.0054

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mM NaCl**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0062	0.0033
1	0.0964	0.0233
1.5	0.2219	0.0020
2	0.2302	0.0000
2.5	0.2315	0.0007
3	0.2316	0.0007
3.5	0.2102	0.0022
4	0.1289	0.0174
4.5	0.1122	0.0109
5	0.0948	0.0033
5.5	0.0876	0.0037
6	0.0789	0.0081
6.5	0.0759	0.0098
7	0.0734	0.0096
7.5	0.0707	0.0105
8	0.0667	0.0135
8.5	0.0656	0.0114
9	0.0646	0.0103
9.5	0.0618	0.0111
10	0.0589	0.0090

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 50 mM NaCl**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0026	0.0000
1	0.0897	0.0004
1.5	0.1578	0.0005
2	0.1633	0.0001
2.5	0.1631	0.0002
3	0.1647	0.0004
3.5	0.1253	0.0008
4	0.1138	0.0000
4.5	0.0920	0.0006
5	0.0638	0.0004
5.5	0.0391	0.0003
6	0.0127	0.0000
6.5	0.0099	0.0001
7	0.0058	0.0003
7.5	0.0063	0.0001
8	0.0017	0.0000
8.5	0.0014	0.0000

9	0.0006	0.0000
9.5	0.0013	0.0000
10	0.0005	0.0000

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.1728	0.0016
1.5	0.1375	0.0021
2.5	0.1023	0.0007
3.5	0.0772	0.0003
4.5	0.0885	0.0002
5.5	0.0720	0.0004
6.5	0.0844	0.0006
7.5	0.0649	0.0003
8.5	0.0863	0.0008
9.5	0.0830	0.0005

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.3345	0.0137
1.5	0.2880	0.0007
2.5	0.2564	0.0193
3.5	0.1909	0.0484
4.5	0.1940	0.0009
5.5	0.1270	0.0005
6.5	0.1173	0.0029
7.5	0.1157	0.0024
8.5	0.1449	0.0025
9.5	0.1057	0.0035

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.8318	0.0198
1.5	0.6163	0.0501
2.5	0.5463	0.0954
3.5	0.4453	0.0157
4.5	0.4197	0.0082
5.5	0.3838	0.0165
6.5	0.3793	0.0001
7.5	0.3609	0.0305
8.5	0.3522	0.0152
9.5	0.3608	0.0251

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 50 mM NaCl**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	1.008	0.056
1.5	0.851	0.031
2.5	0.751	0.001
3.5	0.633	0.017
4.5	0.604	0.005
5.5	0.585	0.011

6.5	0.543	0.001
7.5	0.513	0.004
8.5	0.438	0.046
9.5	0.396	0.005

**Figure 3c and 3d.** Breakthrough curve (Figure 3c) and retention profile (Figure 3d) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in water-saturated sand columns under different concentrations of CaCl<sub>2</sub> (0, 0.33, 1.67, and 3.33 mM)

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mM CaCl<sub>2</sub>**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0343	0.0225
1	0.0614	0.0217
1.5	0.2181	0.0006
2	0.2399	0.0194
2.5	0.2309	0.0105
3	0.2334	0.0079
3.5	0.2629	0.0162
4	0.6228	0.0537
4.5	0.7294	0.1333
5	0.8655	0.0311
5.5	0.6006	0.0121
6	0.2910	0.0559
6.5	0.2803	0.0680
7	0.1924	0.0079
7.5	0.0755	0.0106
8	0.0868	0.0162
8.5	0.0736	0.0384
9	0.0752	0.0463
9.5	0.0773	0.0236
10	0.0448	0.0341

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0.33 mM CaCl<sub>2</sub>**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0040	0.0002
1	0.0521	0.0282
1.5	0.2622	0.0169
2	0.2602	0.0142
2.5	0.2574	0.0056
3	0.2576	0.0025
3.5	0.3625	0.0009
4	0.5252	0.0385
4.5	0.2682	0.0169
5	0.1734	0.0271
5.5	0.1632	0.0046
6	0.1350	0.0308
6.5	0.1138	0.0388
7	0.1034	0.0398
7.5	0.1020	0.0279
8	0.0967	0.0222
8.5	0.0852	0.0231

9	0.0763	0.0230
9.5	0.0673	0.0163
10	0.0779	0.0127

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1.67 mM CaCl<sub>2</sub>**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0018	0.0003
1	0.0280	0.0107
1.5	0.1968	0.0036
2	0.1992	0.0029
2.5	0.1990	0.0032
3	0.2013	0.0026
3.5	0.2053	0.0018
4	0.1333	0.0069
4.5	0.0823	0.0172
5	0.0637	0.0190
5.5	0.0548	0.0180
6	0.0458	0.0152
6.5	0.0346	0.0055
7	0.0292	0.0011
7.5	0.0228	0.0008
8	0.0183	0.0044
8.5	0.0156	0.0072
9	0.0155	0.0067
9.5	0.0120	0.0114
10	0.0124	0.0105

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 3.33 mM CaCl<sub>2</sub>**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0013	0.0018
1	0.0145	0.0004
1.5	0.1308	0.0091
2	0.1386	0.0022
2.5	0.1370	0.0014
3	0.1357	0.0029
3.5	0.1053	0.0094
4	0.0819	0.0049
4.5	0.0677	0.0010
5	0.0548	0.0045
5.5	0.0451	0.0066
6	0.0310	0.0126
6.5	0.0184	0.0137
7	0.0056	0.0058
7.5	0.0019	0.0012
8	0.0007	0.0002
8.5	0.0002	0.0002
9	0.0002	0.0001
9.5	0.0011	0.0014
10	0.0003	0.0005

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mM CaCl<sub>2</sub>**

Depth (cm)	S/C <sub>0</sub> (Mean value)	S/C <sub>0</sub> (STD)
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0.5	0.1728	0.0016
1.5	0.1375	0.0021
2.5	0.1023	0.0007
3.5	0.0772	0.0003
4.5	0.0885	0.0002
5.5	0.0720	0.0004
6.5	0.0844	0.0006
7.5	0.0649	0.0003
8.5	0.0863	0.0008
9.5	0.0830	0.0005

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 3.33 mM CaCl<sub>2</sub>**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.4993	0.0512
1.5	0.4180	0.0018
2.5	0.3632	0.0079
3.5	0.3593	0.0438
4.5	0.3156	0.0445
5.5	0.2853	0.0439
6.5	0.2658	0.0215
7.5	0.2651	0.0217
8.5	0.2557	0.0131
9.5	0.2455	0.0001

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1.67 mM CaCl<sub>2</sub>**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	1.3645	0.0624
1.5	0.9715	0.1020
2.5	0.7298	0.0228
3.5	0.5245	0.0392
4.5	0.4176	0.0409
5.5	0.3402	0.0246
6.5	0.3048	0.0255
7.5	0.3040	0.0253
8.5	0.2944	0.0340
9.5	0.2684	0.0255

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 3.33 mM CaCl<sub>2</sub>**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	1.5127	0.0416
1.5	1.0735	0.0394
2.5	0.8666	0.0137
3.5	0.6841	0.0384
4.5	0.5529	0.0010
5.5	0.4379	0.0074
6.5	0.3876	0.0140
7.5	0.3556	0.0159
8.5	0.3316	0.0111
9.5	0.3229	0.0127

**Figure 3e and 3f.** Breakthrough curve (Figure 3e) and retention profile (Figure 3f) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in water-saturated sand columns under different concentrations of Suwannee River humic acid (0, 1, and 10 mg C/L SRHA)

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mg C/L SRHA**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	-0.0049	0.0003
1	0.0079	0.0279
1.5	0.2748	0.0124
2	0.2749	0.0019
2.5	0.2724	0.0003
3	0.2735	0.0003
3.5	0.3817	0.0287
4	0.4487	0.0645
4.5	0.6971	0.0699
5	0.7116	0.0392
5.5	0.4378	0.0805
6	0.3221	0.0088
6.5	0.3161	0.0038
7	0.2758	0.0028
7.5	0.0795	0.0059
8	0.0038	0.0139
8.5	0.0130	0.0045
9	0.0119	0.0090
9.5	0.0040	0.0077
10	-0.0075	0.0054

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mg C/L SRHA**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0031	0.0004
1	0.0868	0.0083
1.5	0.4001	0.0055
2	0.3965	0.0005
2.5	0.3919	0.0024
3	0.4032	0.0079
3.5	0.5875	0.0157
4	0.6780	0.0011
4.5	0.7873	0.0036
5	0.4464	0.0754
5.5	0.2123	0.1093
6	0.1428	0.0600
6.5	0.1075	0.0340
7	0.0629	0.0019
7.5	0.0706	0.0030
8	0.0709	0.0100
8.5	0.0953	0.0096
9	0.0906	0.0106
9.5	0.0839	0.0072
10	0.0941	0.0290

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mg C/L SRHA**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
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0.5	0.0001	0.0001
1	0.0516	0.0071
1.5	0.4333	0.0033
2	0.4314	0.0121
2.5	0.4247	0.0087
3	0.4318	0.0139
3.5	0.6316	0.0228
4	0.7200	0.0274
4.5	0.8544	0.0199
5	0.5723	0.0316
5.5	0.4196	0.0033
6	0.3064	0.0379
6.5	0.2182	0.0065
7	0.1258	0.0093
7.5	0.1039	0.0907
8	0.0630	0.0605
8.5	0.0719	0.0653
9	0.0697	0.0629
9.5	0.0641	0.0608
10	0.0560	0.0815

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mg C/L SRHA**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.3345	0.0137
1.5	0.2880	0.0007
2.5	0.2564	0.0193
3.5	0.1909	0.0484
4.5	0.1940	0.0009
5.5	0.1270	0.0005
6.5	0.1173	0.0029
7.5	0.1157	0.0024
8.5	0.1449	0.0025
9.5	0.1057	0.0035

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mg C/L SRHA**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.2114	0.0334
1.5	0.1788	0.0429
2.5	0.1192	0.0126
3.5	0.1047	0.0206
4.5	0.0787	0.0039
5.5	0.0814	0.0086
6.5	0.0709	0.0268
7.5	0.0702	0.0010
8.5	0.0683	0.0202
9.5	0.0657	0.0014

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mg C/L SRHA**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.0798	0.0040
1.5	0.0744	0.0010
2.5	0.0658	0.0000

3.5	0.0618	0.0001
4.5	0.0587	0.0047
5.5	0.0569	0.0024
6.5	0.0570	0.0021
7.5	0.0542	0.0000
8.5	0.0587	0.0012
9.5	0.0541	0.0002

**Figure 3g and 3h.** Breakthrough curve (Figure 3g) and retention profile (Figure 3h) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in water-saturated sand columns under different concentrations of Suwannee River fulvic acid (0, 1, and 10 mg C/L SRFA)

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mg C/L SRFA**

PV	C/C <sub>o</sub> (Mean value)	C/C <sub>o</sub> (STD)
0.5	-0.0049	0.0003
1	0.0079	0.0279
1.5	0.2748	0.0124
2	0.2749	0.0019
2.5	0.2724	0.0003
3	0.2735	0.0003
3.5	0.3817	0.0287
4	0.4487	0.0645
4.5	0.6971	0.0699
5	0.7116	0.0392
5.5	0.4378	0.0805
6	0.3221	0.0088
6.5	0.3161	0.0038
7	0.2758	0.0028
7.5	0.0795	0.0059
8	0.0038	0.0139
8.5	0.0130	0.0045
9	0.0119	0.0090
9.5	0.0040	0.0077
10	-0.0075	0.0054

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mg C/L SRFA**

PV	C/C <sub>o</sub> (Mean value)	C/C <sub>o</sub> (STD)
0.5	0.0171	0.0020
1	0.0565	0.0096
1.5	0.3884	0.0089
2	0.3857	0.0040
2.5	0.3841	0.0082
3	0.3798	0.0005
3.5	0.6137	0.0093
4	0.7354	0.0045
4.5	0.7726	0.0291
5	0.3162	0.1171
5.5	0.1775	0.0654
6	0.1100	0.0223
6.5	0.1039	0.0328
7	0.1142	0.0337

7.5	0.0836	0.0505
8	0.0750	0.0518
8.5	0.0811	0.0423
9	0.0663	0.0399
9.5	0.0646	0.0442
10	0.0586	0.0421

**Breakthrough curve of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mg C/L SRFA**

PV	C/C <sub>0</sub> (Mean value)	C/C <sub>0</sub> (STD)
0.5	0.0022	0.0004
1	0.0361	0.0088
1.5	0.4378	0.0088
2	0.4292	0.0007
2.5	0.4209	0.0058
3	0.4230	0.0055
3.5	0.6265	0.0034
4	0.6989	0.0068
4.5	0.8218	0.0135
5	0.6000	0.0489
5.5	0.2390	0.0247
6	0.1728	0.0033
6.5	0.1370	0.0175
7	0.1239	0.0272
7.5	0.0844	0.0076
8	0.0554	0.0125
8.5	0.0612	0.0013
9	0.0565	0.0113
9.5	0.0533	0.0120
10	0.0497	0.0123

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 0 mg C/L SRFA**

Depth (cm)	S/C <sub>0</sub> (Mean value)	S/C <sub>0</sub> (STD)
0.5	0.3345	0.0137
1.5	0.2880	0.0007
2.5	0.2564	0.0193
3.5	0.1909	0.0484
4.5	0.1940	0.0009
5.5	0.1270	0.0005
6.5	0.1173	0.0029
7.5	0.1157	0.0024
8.5	0.1449	0.0025
9.5	0.1057	0.0035

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 1 mg C/L SRFA**

Depth (cm)	S/C <sub>0</sub> (Mean value)	S/C <sub>0</sub> (STD)
0.5	0.1590	0.0153
1.5	0.1415	0.0137
2.5	0.1232	0.0075
3.5	0.1121	0.0057
4.5	0.1001	0.0017
5.5	0.1016	0.0065
6.5	0.0987	0.0077

7.5	0.0948	0.0025
8.5	0.0959	0.0007
9.5	0.0976	0.0035

**Retention profile of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at 10 mg C/L SRFA**

Depth (cm)	S/C <sub>o</sub> (Mean value)	S/C <sub>o</sub> (STD)
0.5	0.1119	0.0162
1.5	0.0941	0.0148
2.5	0.0732	0.0143
3.5	0.0687	0.0079
4.5	0.0661	0.0005
5.5	0.0675	0.0049
6.5	0.0620	0.0039
7.5	0.0613	0.0014
8.5	0.0623	0.0016
9.5	0.0639	0.0043

Figure 4 shows the calculated deposition rate coefficient ( $k_d$ ) and maximum transport distance ( $L_{max}$ ) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at varying concentrations of NaCl (0, 1, 10, and 50 mM; Figure 4a), CaCl<sub>2</sub> (0, 0.33, 1.67, and 3.33 mM; Figure 4a), SRHA (0, 1, and 10 mg C/L; Figure 4b), and SRFA (0, 1, and 10 mg C/L; Figure 4b), using the well-defined Tufenkji-Elimelech (TE) equation (Tufenkji, N. and Elimelech, M. Correlation equation for predicting single-collector efficiency in physicochemical filtration in saturated porous media. *Environmental Science & Technology*, 2004, 38 (2): 529-536.).

**Figure 4a.** Calculated deposition rate coefficient ( $k_d$ ) and maximum transport distance ( $L_{max}$ ) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at varying concentrations of NaCl (0, 1, 10, and 50 mM) and CaCl<sub>2</sub> (0, 0.33, 1.67, and 3.33 mM)

NaCl (mM)	$k_d$ (s <sup>-1</sup> )	$L_{max}$ (m)
0	2.77008×10 <sup>-4</sup>	5.55152
1	4.84858×10 <sup>-4</sup>	3.0784
10	0.00217	0.71005
50	0.00345	0.43321

CaCl <sub>2</sub> (mM)	$k_d$ (s <sup>-1</sup> )	$L_{max}$ (m)
0	2.77008×10 <sup>-4</sup>	5.55152
0.33	0.00124	1.24436
1.67	0.0033	0.46586
3.33	0.00393	0.37951

Note: The  $k_d$  unit of s means second; and the  $L_{max}$  unit of m means meter.

**Figure 4b.** Calculated deposition rate coefficient ( $k_d$ ) and maximum transport distance ( $L_{max}$ ) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs at varying concentrations of SRHA (0, 1, and 10 mg C/L) and SRFA (0, 1, and 10 mg C/L)

SRHA (mg C/L)	$k_d$ (s <sup>-1</sup> )	$L_{max}$ (m)
0	4.84858×10 <sup>-4</sup>	3.0784
1	3.03394×10 <sup>-4</sup>	4.91963
10	5.29757×10 <sup>-5</sup>	28.17494

SRFA (mg C/L)	$k_d$ (s <sup>-1</sup> )	$L_{max}$ (m)
0	4.84858×10 <sup>-4</sup>	3.0784
1	4.12129×10 <sup>-4</sup>	3.73139
10	1.75474×10 <sup>-4</sup>	8.50603

**Table 1.** Physicochemical properties of column transport experiments and mass recoveries of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs (in 2% CMC) under different experimental conditions.

NaCl (mM)	CaCl <sub>2</sub> (mM)	SRHA (mg C/L)	SRFA (mg C/L)	pH	Particle conc (mg/L)	Sand size ( $\mu$ m)	Mass recovery (%)		
							M <sub>eff</sub>	M <sub>ret</sub>	M <sub>tot</sub>
0	0	0	0	7.3	10	360	88.3±0.02	12.8±0.25	101±0.23
1	0	0	0	7.3	10	360	79.9±2.4	25.0±0.49	105±2.9
10	0	0	0	7.3	10	360	37.8±0.67	62.2±1.1	100±0.41
50	0	0	0	7.3	10	360	20.3±0.88	84.2±0.18	104±1.1
0	0.33	0	0	7.3	10	360	57.4±2.0	44.2±2.2	102±0.29
0	1.67	0	0	7.3	10	360	22.7±4.4	73.1±0.9	95.8±3.5
0	3.33	0	0	7.3	10	360	16.2±0.84	86.9±1.4	103±2.3
1	0	1	0	7.3	10	360	86.9±1.5	14.2±0.28	101±1.2
1	0	10	0	7.3	10	360	97.6±3.8	8.0±0.28	106±4.1
1	0	0	1	7.3	10	360	83.1±2.6	14.9±0.72	98.0±1.9
1	0	0	10	7.3	10	360	92.2±1.2	9.7±0.77	102±0.41
1	0	0	0	4.0	10	360	35.0±0.58	66.1±1.8	101±2.4
1	0	0	0	10	10	360	89.5±0.67	16.1±0.49	106±1.2
0	0	0	0	7.3	25	360	98.5±1.2	8.0±0.36	107±1.5
0	0	0	0	7.3	50	360	104±0.49	4.0±0.30	108±0.19
1	0	0	0	7.3	10	280	28.6±1.8	64.9±0.89	93.5±2.7
1	0	0	0	7.3	10	230	97.4±0.36	6.1±0.42	104±0.79

SRHA and SRFA are Suwannee River humic acid and Suwannee River fulvic acid, respectively. Conc is concentration. M<sub>eff</sub>, M<sub>ret</sub>, and M<sub>tot</sub> are mass percentages of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs recovered from effluent, retentate, and total column, respectively.



**Table 2.** Average hydrodynamic radius ( $r_h$ ) of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in the influents, effluents, and retentates at different NaCl and CaCl<sub>2</sub> concentrations.

NaCl (mM)	CaCl <sub>2</sub> (mM)	Sand grain diameter ( $\mu$ m)	$r_h$ (nm)				$r_h/r_{50}$ <sup>d</sup> (-)
			Influent	Effluent <sup>a</sup>	Retentate <sup>b</sup>	$\Delta r_h$ <sup>c</sup>	
0	0	360	994 $\pm$ 226	836 $\pm$ 48	1096 $\pm$ 41	260	5.52 $\times$ 10 <sup>-3</sup>
1	0	360	1632 $\pm$ 143	1432 $\pm$ 152	2001 $\pm$ 182	569	9.07 $\times$ 10 <sup>-3</sup>
10	0	360	1687 $\pm$ 167	1455 $\pm$ 182	2285 $\pm$ 234	830	9.37 $\times$ 10 <sup>-3</sup>
50	0	360	2025 $\pm$ 290	1734 $\pm$ 324	2789 $\pm$ 188	1055	1.13 $\times$ 10 <sup>-2</sup>
0	0.33	360	1988 $\pm$ 237	1691 $\pm$ 182	2338 $\pm$ 146	647	1.10 $\times$ 10 <sup>-2</sup>
0	1.67	360	2238 $\pm$ 399	1825 $\pm$ 297	2875 $\pm$ 221	1050	1.24 $\times$ 10 <sup>-2</sup>
0	3.33	360	2728 $\pm$ 349	1958 $\pm$ 350	3568 $\pm$ 438	1610	1.52 $\times$ 10 <sup>-2</sup>

<sup>a</sup> Effluents collected at 1.5, 2, 2.5, and 3 PVs (Figures 2–3) were used for  $r_h$  measurements.

<sup>b</sup> Retentates retained at the column inlet (0–1 cm) were used for  $r_h$  measurements.

<sup>c</sup>  $r_h$  difference of NHs in the effluents and retentates.

<sup>d</sup>  $r_{50}$  is the average sand grain radius (180  $\mu$ m). The  $r_h/r_{50}$  values were calculated to test the effect of straining on the retention of CNT-Fe<sub>3</sub>O<sub>4</sub> NHs in column experiments.