

DATA — Assignment5 — Mengying Wang

N	N ^{1/2}	lgN	X = 1000		X = 100000		X = 1000000	
			Average	Max	Average	Max	Average	Max
100	10	6.6439	19	24	16	27	19	25
200	14.1421	7.6439	16	30	19	35	21	38
300	17.3205	8.2288	16	24	23	41	23	40
400	20	8.6439	16	30	25	43	23	40
500	22.3607	8.9658	18	32	27	46	25	45
600	24.4949	9.2288	17	26	25	42	27	48
700	26.4575	9.4512	15	30	27	48	30	50
800	28.2843	9.6439	19	34	27	46	28	50
900	30	9.8138	17	29	28	42	30	53
1000	31.6228	9.9658	14	32	33	50	34	52
1100	33.1662	10.1033	14	32	31	45	28	61
1200	34.641	10.2288	16	32	29	46	31	58
1300	36.0555	10.3443	15	29	28	47	30	54
1400	37.4166	10.4512	15	35	32	53	34	52
1500	38.7298	10.5507	16	26	29	45	27	55
1600	40	10.6439	15	31	29	48	33	58
1700	41.2311	10.7313	16	30	28	48	33	55
1800	42.4264	10.8138	17	28	32	48	30	56
1900	43.589	10.8918	14	30	35	49	32	53
2000	44.7214	10.9658	15	32	32	52	34	59
2100	45.8258	11.0362	16	28	32	51	31	56
2200	46.9042	11.1033	18	29	26	48	33	59
2300	47.9583	11.1674	15	32	25	47	39	49
2400	48.9898	11.2288	16	28	32	59	35	55
2500	50	11.2877	16	30	32	44	32	56
2600	50.9902	11.3443	15	32	26	48	39	60
2700	51.9615	11.3987	14	38	29	43	33	55
2800	52.915	11.4512	15	33	33	47	32	57
2900	53.8516	11.5018	16	32	29	46	34	58
3000	54.7723	11.5507	15	33	30	47	30	55
3100	55.6776	11.5981	15	26	30	46	34	54
3200	56.5685	11.6439	16	36	29	48	30	58
3300	57.4456	11.6883	16	30	35	53	35	52
3400	58.3095	11.7313	15	29	26	50	36	55
3500	59.1608	11.7731	15	30	29	43	33	55
3600	60	11.8138	15	37	35	44	34	58
3700	60.8276	11.8533	15	27	32	44	29	63
3800	61.6441	11.8918	15	30	28	47	29	51
3900	62.45	11.9293	17	35	26	47	30	62
4000	63.2456	11.9658	16	30	28	46	36	59
4100	64.0312	12.0014	15	27	31	55	34	62

N	N ^{1/2}	lgN	X = 1000		X = 100000		X = 1000000	
			Average	Max	Average	Max	Average	Max
4200	64.8074	12.0362	18	32	31	50	35	57
4300	65.5744	12.0701	15	27	30	49	38	57
4400	66.3325	12.1033	16	32	29	48	38	57
4500	67.082	12.1357	17	28	34	56	36	59
4600	67.8233	12.1674	18	31	30	53	33	58
4700	68.5565	12.1984	15	29	30	47	34	64
4800	69.282	12.2288	16	34	29	47	36	61
4900	70	12.2586	17	29	32	50	36	57
5000	70.7107	12.2877	16	29	28	49	32	59
5100	71.4143	12.3163	16	29	31	55	36	68
5200	72.111	12.3443	17	33	30	49	35	54
5300	72.8011	12.3718	16	33	29	54	33	52
5400	73.4847	12.3987	17	26	30	47	34	61
5500	74.162	12.4252	16	36	30	47	39	55
5600	74.8331	12.4512	17	33	29	45	31	54
5700	75.4983	12.4767	16	38	24	49	36	61
5800	76.1577	12.5018	16	29	27	46	38	60
5900	76.8115	12.5265	16	30	30	49	31	67
6000	77.4597	12.5507	16	29	33	53	42	61
6100	78.1025	12.5746	16	31	32	48	34	59
6200	78.7401	12.5981	16	33	27	47	32	61
6300	79.3725	12.6211	16	32	28	46	35	55
6400	80	12.6439	16	40	29	49	37	62
6500	80.6226	12.6662	16	30	36	51	35	62
6600	81.2404	12.6883	17	32	26	57	41	59
6700	81.8535	12.7099	16	30	32	47	36	54
6800	82.4621	12.7313	16	31	29	49	34	58
6900	83.0662	12.7524	16	30	34	52	32	54
7000	83.666	12.7731	16	38	29	49	36	62
7100	84.2615	12.7936	17	32	32	49	35	59
7200	84.8528	12.8138	16	35	30	54	34	60
7300	85.44	12.8337	16	37	27	54	33	61
7400	86.0233	12.8533	17	34	32	49	30	61
7500	86.6025	12.8727	16	33	28	47	36	61
7600	87.178	12.8918	15	31	35	51	35	63
7700	87.7496	12.9106	15	38	32	57	33	58
7800	88.3176	12.9293	16	33	34	52	38	59
7900	88.8819	12.9476	16	35	27	49	34	57
8000	89.4427	12.9658	17	30	28	55	35	62
8100	90	12.9837	16	35	28	48	33	57
8200	90.5539	13.0014	17	30	28	53	34	61
8300	91.1043	13.0189	16	33	25	53	36	58

N	N ^{1/2}	lgN	X = 1000		X = 100000		X = 1000000	
			Average	Max	Average	Max	Average	Max
8400	91.6515	13.0362	17	36	26	50	35	56
8500	92.1954	13.0532	17	31	34	50	44	59
8600	92.7362	13.0701	16	32	29	51	37	65
8700	93.2738	13.0868	18	33	32	49	34	66
8800	93.8083	13.1033	16	33	31	50	33	57
8900	94.3398	13.1196	16	34	25	48	33	59
9000	94.8683	13.1357	16	34	29	49	38	57
9100	95.3939	13.1517	16	30	32	52	35	63
9200	95.9166	13.1674	17	33	34	49	34	60
9300	96.4365	13.183	16	31	33	47	32	58
9400	96.9536	13.1984	16	32	31	52	39	63
9500	97.4679	13.2137	18	37	29	52	34	62
9600	97.9796	13.2288	16	31	35	47	39	54
9700	98.4886	13.2438	16	42	26	44	37	59
9800	98.9949	13.2586	17	32	25	49	45	56
9900	99.4987	13.2732	17	30	26	49	33	66
10000	100	13.2877	17	31	28	51	33	67