Table 1
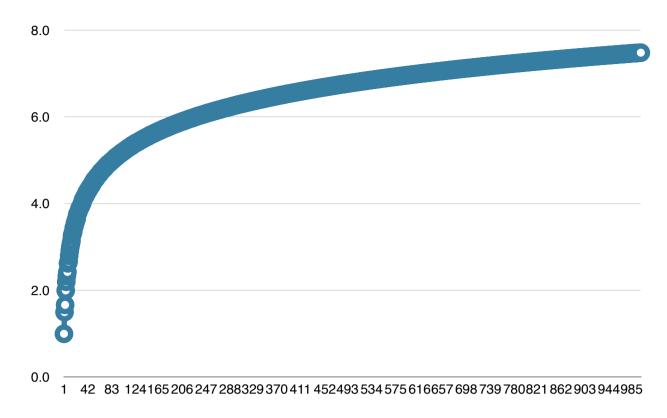
#of vertex in left set	ratio
1	1.0
2	1.5
3	1.66666666667
4	2.0
5	2.2
6	2.33333333333
7	2.42857142857
8	2.625
9	2.66666666667
10	2.8
11	2.90909090909
12	3.0
13	3.07692307692
14	3.14285714286
15	3.26666666667
16	3.3125
17	3.35294117647
18	3.44444444444
19	3.47368421053
20	3.55
21	3.57142857143
22	3.63636363636
23	3.65217391304
24	3.75
25	3.76
26	3.80769230769
27	3.81481481481
28	3.89285714286
29	3.89655172414
30	3.93333333333
31	3.96774193548
32	4.0
33	4.0303030303
34	4.08823529412
35	4.08571428571
36	4.13888888889
37	4.16216216216
38	4.18421052632

1

#of vertex in left set	ratio
39	4.20512820513
40	4.25
41	4.26829268293
42	4.28571428571
43	4.3023255814
44	4.34090909091
45	4.35555555556
46	4.36956521739
47	4.40425531915
48	4.41666666667
49	4.42857142857
50	4.46
51	4.49019607843
52	4.5
53	4.52830188679
54	4.55555555556
55	4.56363636364
56	4.57142857143
57	4.59649122807
58	4.62068965517
59	4.62711864407
60	4.65
61	4.65573770492
62	4.67741935484
63	4.69841269841
64	4.71875
65	4.73846153846
66	4.74242424242
67	4.76119402985
68	4.77941176471
69	4.78260869565
70	4.8
71	4.81690140845
72	4.83333333333
73	4.84931506849
74	4.86486486486
75	4.88
76	4.89473684211
77	4.8961038961
78	4.92307692308

#of vertex in left set	ratio
79	4.92405063291
80	4.9375
81	4.95061728395
82	4.96341463415
83	4.97590361446
84	4.9880952381
85	5.0
86	5.01162790698
87	5.02298850575
88	5.03409090909
89	5.04494382022
90	5.06666666667
91	5.06593406593
92	5.07608695652
93	5.09677419355
94	5.10638297872
95	5.11578947368
96	5.125
97	5.13402061856
98	5.14285714286
99	5.15151515152
100	5.17
101	5.17821782178
102	5.1862745098
103	5.19417475728
104	5.20192307692
105	5.20952380952
106	5.22641509434
107	5.23364485981
108	5.24074074074
109	5.24770642202
110	5.26363636364
111	5.27027027027
112	5.28571428571
113	5.29203539823
114	5.29824561404
115	5.30434782609
116	5.31896551724
117	5.32478632479
118	5.33050847458

#of vertex in left set	ratio
119	5.34453781513
120	5.35833333333
121	5.35537190083
122	5.36885245902
123	5.37398373984
124	5.38709677419
125	5.392
126	5.40476190476
127	5.4094488189
128	5.4140625
129	5.42635658915
130	5.43076923077
131	5.43511450382
132	5.44696969697
133	5.45112781955
134	5.46268656716
135	5.46666666667
136	5.47794117647
137	5.48175182482
138	5.49275362319
139	5.4964028777
140	5.50714285714
141	5.51063829787
142	5.52112676056
143	5.52447552448
144	5.53472222222
145	5.53793103448
146	5.54794520548
147	5.55782312925
148	5.56081081081
149	5.57046979866
150	5.58
151	5.58278145695
152	5.59210526316
153	5.59477124183
154	5.6038961039
155	5.6064516129
156	5.61538461538
157	5.62420382166
158	5.62658227848

#of vertex in left set	ratio
159	5.63522012579
160	5.64375
161	5.64596273292
162	5.65432098765
163	5.65644171779
164	5.66463414634
165	5.67272727273
166	5.68072289157
167	5.68263473054
168	5.69047619048
169	5.69230769231
170	5.7
171	5.70760233918
172	5.71511627907
173	5.7225433526
174	5.72988505747
175	5.73142857143
176	5.73863636364
177	5.74011299435
178	5.74719101124
179	5.75418994413
180	5.76111111111
181	5.76243093923
182	5.76923076923
183	5.77595628415
184	5.78260869565
185	5.78918918919
186	5.79569892473
187	5.79679144385
188	5.80319148936
189	5.80952380952
190	5.81578947368
191	5.8167539267
192	5.828125
193	5.82901554404
194	5.83505154639
195	5.84102564103
196	5.84693877551
197	5.85279187817
198	5.85858585859

#of vertex in left set	ratio
199	5.85929648241
200	5.865
201	5.87064676617
202	5.87623762376
203	5.88177339901
204	5.88725490196
205	5.88780487805
206	5.89805825243
207	5.89855072464
208	5.90384615385
209	5.90909090909
210	5.91428571429
211	5.91943127962
212	5.92452830189
213	5.92957746479
214	5.93457943925
215	5.93953488372
216	5.94444444444
217	5.94930875576
218	5.95412844037
219	5.95433789954
220	5.96363636364
221	5.96380090498
222	5.97297297297
223	5.9730941704
224	5.97767857143
225	5.98222222222
226	5.98672566372
227	5.99118942731
228	6.0
229	6.0
230	6.00869565217
231	6.01298701299
232	6.01724137931
233	6.01716738197
234	6.02564102564
235	6.02553191489
236	6.03389830508
237	6.03375527426
238	6.04201680672

#of vertex in left set	ratio
239	6.0460251046
240	6.05
241	6.05394190871
242	6.05785123967
243	6.06172839506
244	6.06557377049
245	6.0693877551
246	6.07317073171
247	6.07692307692
248	6.08467741935
249	6.0843373494
250	6.092
251	6.09561752988
252	6.09920634921
253	6.10276679842
254	6.1062992126
255	6.10980392157
256	6.11328125
257	6.11673151751
258	6.12403100775
259	6.12741312741
260	6.13076923077
261	6.13409961686
262	6.13740458015
263	6.14068441065
264	6.14393939394
265	6.14716981132
266	6.15413533835
267	6.15730337079
268	6.16044776119
269	6.16356877323
270	6.16666666667
271	6.16974169742
272	6.17279411765
273	6.17948717949
274	6.18248175182
275	6.18545454545
276	6.19202898551
277	6.19133574007
278	6.19784172662

#of vertex in left set	ratio
279	6.20071684588
280	6.20357142857
281	6.20996441281
282	6.21276595745
283	6.21554770318
284	6.21830985915
285	6.22105263158
286	6.22377622378
287	6.22996515679
288	6.23263888889
289	6.23529411765
290	6.23793103448
291	6.2439862543
292	6.24657534247
293	6.24914675768
294	6.25510204082
295	6.25762711864
296	6.26013513514
297	6.26262626263
298	6.26845637584
299	6.27090301003
300	6.27333333333
301	6.27574750831
302	6.28145695364
303	6.28382838284
304	6.28947368421
305	6.29180327869
306	6.29411764706
307	6.29641693811
308	6.30194805195
309	6.30420711974
310	6.3064516129
311	6.30868167203
312	6.3141025641
313	6.31629392971
314	6.31847133758
315	6.32380952381
316	6.32594936709
317	6.32807570978
318	6.33333333333

#of vertex in left set	ratio
319	6.33542319749
320	6.3375
321	6.34267912773
322	6.34472049689
323	6.34674922601
324	6.35185185185
325	6.35384615385
326	6.35889570552
327	6.36085626911
328	6.36280487805
329	6.36778115502
330	6.3696969697
331	6.37160120846
332	6.3765060241
333	6.37837837838
334	6.38023952096
335	6.38507462687
336	6.38988095238
337	6.39169139466
338	6.39349112426
339	6.3982300885
340	6.4
341	6.40175953079
342	6.40643274854
343	6.40816326531
344	6.40988372093
345	6.41449275362
346	6.4161849711
347	6.42074927954
348	6.4224137931
349	6.42406876791
350	6.42857142857
351	6.4301994302
352	6.43465909091
353	6.43626062323
354	6.4406779661
355	6.44225352113
356	6.44662921348
357	6.44817927171
358	6.45251396648

#of vertex in left set	ratio
359	6.45403899721
360	6.45833333333
361	6.45983379501
362	6.46132596685
363	6.46556473829
364	6.46978021978
365	6.47123287671
366	6.47267759563
367	6.47683923706
368	6.47826086957
369	6.48238482385
370	6.48648648649
371	6.48517520216
372	6.49193548387
373	6.49061662198
374	6.49465240642
375	6.49866666667
376	6.50265957447
377	6.50397877984
378	6.50793650794
379	6.5092348285
380	6.51052631579
381	6.51443569554
382	6.51570680628
383	6.51958224543
384	6.5234375
385	6.52467532468
386	6.52849740933
387	6.52971576227
388	6.53350515464
389	6.53470437018
390	6.53846153846
391	6.53964194373
392	6.54336734694
393	6.54452926209
394	6.54822335025
395	6.54936708861
396	6.55303030303
397	6.55415617128
398	6.55778894472

#of vertex in left set	ratio
399	6.56140350877
400	6.5625
401	6.56608478803
402	6.5671641791
403	6.57071960298
404	6.57178217822
405	6.57530864198
406	6.57881773399
407	6.57985257985
408	6.58333333333
409	6.58435207824
410	6.58780487805
411	6.59124087591
412	6.59223300971
413	6.59564164649
414	6.59903381643
415	6.6
416	6.60096153846
417	6.60431654676
418	6.60765550239
419	6.60859188544
420	6.6119047619
421	6.61282660333
422	6.61611374408
423	6.61938534279
424	6.62264150943
425	6.62352941176
426	6.62676056338
427	6.62763466042
428	6.6308411215
429	6.63403263403
430	6.63488372093
431	6.63805104408
432	6.6412037037
433	6.64203233256
434	6.64516129032
435	6.64597701149
436	6.64908256881
437	6.65217391304
438	6.65525114155

#of vertex in left set	ratio
439	6.65603644647
440	6.65909090909
441	6.65986394558
442	6.6628959276
443	6.66591422122
444	6.66891891892
445	6.66966292135
446	6.67264573991
447	6.67337807606
448	6.67633928571
449	6.67928730512
450	6.68222222222
451	6.68292682927
452	6.68584070796
453	6.68874172185
454	6.68942731278
455	6.69230769231
456	6.6951754386
457	6.69584245077
458	6.69868995633
459	6.70152505447
460	6.70217391304
461	6.70498915401
462	6.70779220779
463	6.70842332613
464	6.71120689655
465	6.71397849462
466	6.71673819742
467	6.71734475375
468	6.72008547009
469	6.72281449893
470	6.72553191489
471	6.72611464968
472	6.72881355932
473	6.73150105708
474	6.73417721519
475	6.73473684211
476	6.73739495798
477	6.74004192872
478	6.74267782427

#of vertex in left set	ratio
479	6.74321503132
480	6.74791666667
481	6.74636174636
482	6.7510373444
483	6.75362318841
484	6.7541322314
485	6.75670103093
486	6.75925925926
487	6.75975359343
488	6.76229508197
489	6.76482617587
490	6.76734693878
491	6.76782077393
492	6.77032520325
493	6.77281947262
494	6.77530364372
495	6.77777777778
496	6.77822580645
497	6.78068410463
498	6.78313253012
499	6.78557114228
500	6.788
501	6.78842315369
502	6.79083665339
503	6.79324055666
504	6.79563492063
505	6.79603960396
506	6.79841897233
507	6.80078895464
508	6.8031496063
509	6.80550098232
510	6.80784313725
511	6.80821917808
512	6.810546875
513	6.81286549708
514	6.81517509728
515	6.81747572816
516	6.81976744186
517	6.82011605416
518	6.82239382239

#of vertex in left set	ratio
519	6.8246628131
520	6.82692307692
521	6.82917466411
522	6.83141762452
523	6.83173996176
524	6.83396946565
525	6.83619047619
526	6.83840304183
527	6.84060721063
528	6.8428030303
529	6.84310018904
530	6.84528301887
531	6.84745762712
532	6.84962406015
533	6.85178236398
534	6.85393258427
535	6.85420560748
536	6.85634328358
537	6.85847299814
538	6.86059479554
539	6.86270871985
540	6.86481481481
541	6.86506469501
542	6.86900369004
543	6.86924493554
544	6.87132352941
545	6.87339449541
546	6.87545787546
547	6.87751371115
548	6.8795620438
549	6.88160291439
550	6.88363636364
551	6.88384754991
552	6.88768115942
553	6.88788426763
554	6.88989169675
555	6.89189189189
556	6.89388489209
557	6.89587073609
558	6.89784946237

#of vertex in left set	ratio
559	6.89803220036
560	6.9
561	6.90196078431
562	6.90391459075
563	6.90586145648
564	6.90780141844
565	6.90973451327
566	6.91166077739
567	6.91358024691
568	6.91549295775
569	6.91739894552
570	6.91929824561
571	6.91943957968
572	6.92132867133
573	6.92321116928
574	6.92508710801
575	6.92695652174
576	6.92881944444
577	6.93067590988
578	6.93252595156
579	6.93436960276
580	6.93620689655
581	6.93803786575
582	6.93986254296
583	6.93996569468
584	6.94178082192
585	6.94358974359
586	6.94539249147
587	6.9471890971
588	6.95068027211
589	6.95076400679
590	6.95254237288
591	6.95431472081
592	6.95608108108
593	6.95784148398
594	6.9595959596
595	6.96134453782
596	6.96308724832
597	6.9648241206
598	6.96655518395

#of vertex in left set	ratio
599	6.96828046745
600	6.97
601	6.97171381032
602	6.97342192691
603	6.97512437811
604	6.97682119205
605	6.97851239669
606	6.9801980198
607	6.98187808896
608	6.98355263158
609	6.98522167488
610	6.9868852459
611	6.98854337152
612	6.99019607843
613	6.99184339315
614	6.99348534202
615	6.99512195122
616	6.99675324675
617	6.99837925446
618	7.0
619	7.00161550889
620	7.00322580645
621	7.00483091787
622	7.00643086817
623	7.00802568218
624	7.00961538462
625	7.0096
626	7.01277955272
627	7.01435406699
628	7.01592356688
629	7.01748807631
630	7.01904761905
631	7.0206022187
632	7.02215189873
633	7.02369668246
634	7.02523659306
635	7.02677165354
636	7.02830188679
637	7.02982731554
638	7.03134796238

#of vertex in left set	ratio
639	7.03286384977
640	7.034375
641	7.03588143526
642	7.03738317757
643	7.03888024883
644	7.04037267081
645	7.04186046512
646	7.04489164087
647	7.04636785162
648	7.04783950617
649	7.04930662558
650	7.05076923077
651	7.05222734255
652	7.0536809816
653	7.05513016845
654	7.05657492355
655	7.05801526718
656	7.05945121951
657	7.06088280061
658	7.0623100304
659	7.06373292868
660	7.06666666667
661	7.06656580938
662	7.06797583082
663	7.07088989442
664	7.07228915663
665	7.07368421053
666	7.07507507508
667	7.07646176912
668	7.07784431138
669	7.07922272048
670	7.08059701493
671	7.08196721311
672	7.08482142857
673	7.08469539376
674	7.08605341246
675	7.08740740741
676	7.09023668639
677	7.09158050222
678	7.09292035398

#of vertex in left set	ratio
679	7.0942562592
680	7.09558823529
681	7.09691629956
682	7.09824046921
683	7.09956076135
684	7.10233918129
685	7.10218978102
686	7.10495626822
687	7.10480349345
688	7.10755813953
689	7.10885341074
690	7.11014492754
691	7.11143270622
692	7.11271676301
693	7.113997114
694	7.11671469741
695	7.11798561151
696	7.11925287356
697	7.12051649928
698	7.1217765043
699	7.12303290415
700	7.12428571429
701	7.12553495007
702	7.12678062678
703	7.1280227596
704	7.13068181818
705	7.13191489362
706	7.13314447592
707	7.13437057992
708	7.13559322034
709	7.13681241185
710	7.13943661972
711	7.14064697609
712	7.14185393258
713	7.14305750351
714	7.14425770308
715	7.14545454545
716	7.14664804469
717	7.14783821478
718	7.1504178273

#of vertex in left set	ratio
719	7.15159944367
720	7.15277777778
721	7.15395284327
722	7.15512465374
723	7.15767634855
724	7.15883977901
725	7.16
726	7.16115702479
727	7.16231086657
728	7.16346153846
729	7.1646090535
730	7.16712328767
731	7.1682626539
732	7.1693989071
733	7.17053206003
734	7.17302452316
735	7.17414965986
736	7.17527173913
737	7.17639077341
738	7.17750677507
739	7.17861975643
740	7.17972972973
741	7.18083670715
742	7.1832884097
743	7.18438761777
744	7.18548387097
745	7.18657718121
746	7.1890080429
747	7.19009370817
748	7.19117647059
749	7.19225634179
750	7.19466666667
751	7.19440745672
752	7.19680851064
753	7.197875166
754	7.19893899204
755	7.2
756	7.20238095238
757	7.20211360634
758	7.20448548813

#of vertex in left set	ratio
759	7.20553359684
760	7.20657894737
761	7.20762155059
762	7.20997375328
763	7.21100917431
764	7.21204188482
765	7.21307189542
766	7.21540469974
767	7.21642764016
768	7.21875
769	7.21846553966
770	7.22077922078
771	7.22178988327
772	7.22279792746
773	7.22380336352
774	7.22609819121
775	7.22709677419
776	7.22809278351
777	7.22908622909
778	7.23007712082
779	7.2323491656
780	7.23333333333
781	7.23431498079
782	7.23657289003
783	7.23754789272
784	7.23852040816
785	7.23949044586
786	7.24045801527
787	7.24142312579
788	7.24365482234
789	7.24461343473
790	7.24556962025
791	7.24778761062
792	7.24873737374
793	7.24968474149
794	7.25062972292
795	7.25283018868
796	7.25376884422
797	7.25470514429
798	7.25689223058

#of vertex in left set	ratio
799	7.25657071339
800	7.25875
801	7.25967540574
802	7.26059850374
803	7.26276463263
804	7.26368159204
805	7.26459627329
806	7.26674937965
807	7.26765799257
808	7.26856435644
809	7.2694684796
810	7.27160493827
811	7.27250308261
812	7.27339901478
813	7.27429274293
814	7.27641277641
815	7.2773006135
816	7.27818627451
817	7.27906976744
818	7.28117359413
819	7.28205128205
820	7.28292682927
821	7.2850182704
822	7.28588807786
823	7.28675577157
824	7.28762135922
825	7.2896969697
826	7.29055690073
827	7.29141475212
828	7.29347826087
829	7.2943305187
830	7.29518072289
831	7.2972322503
832	7.29807692308
833	7.29891956783
834	7.30095923261
835	7.30179640719
836	7.30263157895
837	7.30346475508
838	7.30548926014

#of vertex in left set	ratio
839	7.3063170441
840	7.30833333333
841	7.3079667063
842	7.30997624703
843	7.31079478055
844	7.31279620853
845	7.31360946746
846	7.31442080378
847	7.31523022432
848	7.31721698113
849	7.31802120141
850	7.31882352941
851	7.32079905993
852	7.32276995305
853	7.3223915592
854	7.3243559719
855	7.32514619883
856	7.32593457944
857	7.32788798133
858	7.32867132867
859	7.32945285215
860	7.33139534884
861	7.33217189315
862	7.33294663573
863	7.3348783314
864	7.33564814815
865	7.33641618497
866	7.33833718245
867	7.33910034602
868	7.33986175115
869	7.3417721519
870	7.34252873563
871	7.34328358209
872	7.34518348624
873	7.34593356243
874	7.34782608696
875	7.34857142857
876	7.350456621
877	7.35005701254
878	7.35193621868

#of vertex in left set	ratio
879	7.35267349261
880	7.35454545455
881	7.35527809308
882	7.35600907029
883	7.35673839185
884	7.35859728507
885	7.3593220339
886	7.3611738149
887	7.3618940248
888	7.36373873874
889	7.3633295838
890	7.36516853933
891	7.367003367
892	7.36771300448
893	7.36842105263
894	7.37024608501
895	7.37094972067
896	7.37165178571
897	7.3734671126
898	7.37416481069
899	7.37486095662
900	7.37666666667
901	7.37735849057
902	7.37915742794
903	7.37984496124
904	7.38053097345
905	7.38232044199
906	7.38300220751
907	7.38368246968
908	7.38546255507
909	7.38613861386
910	7.38791208791
911	7.38858397366
912	7.39035087719
913	7.39101861993
914	7.39168490153
915	7.39344262295
916	7.39410480349
917	7.39585605234
918	7.39651416122

#of vertex in left set	ratio
919	7.39717083787
920	7.39891304348
921	7.39956568947
922	7.40130151844
923	7.40195016251
924	7.40367965368
925	7.40324324324
926	7.40496760259
927	7.40668824164
928	7.40732758621
929	7.40796555436
930	7.40967741935
931	7.41031149302
932	7.41201716738
933	7.41264737406
934	7.41327623126
935	7.41497326203
936	7.4155982906
937	7.41728922092
938	7.41791044776
939	7.41853035144
940	7.42021276596
941	7.42082890542
942	7.42250530786
943	7.42311770944
944	7.42478813559
945	7.4253968254
946	7.42706131078
947	7.42766631468
948	7.42932489451
949	7.42992623815
950	7.43052631579
951	7.43217665615
952	7.43277310924
953	7.4333683106
954	7.43501048218
955	7.43560209424
956	7.43723849372
957	7.43782654127
958	7.43945720251

#of vertex in left set	ratio
959	7.44004171011
960	7.44166666667
961	7.44224765869
962	7.44386694387
963	7.44444444444
964	7.44605809129
965	7.44663212435
966	7.44824016563
967	7.44777662875
968	7.44938016529
969	7.45098039216
970	7.45154639175
971	7.45211122554
972	7.4537037037
973	7.4542651593
974	7.45585215606
975	7.45641025641
976	7.45799180328
977	7.45854657114
978	7.46012269939
979	7.4606741573
980	7.4612244898
981	7.4627930683
982	7.46435845214
983	7.46490335707
984	7.46646341463
985	7.46700507614
986	7.46855983773
987	7.46909827761
988	7.47064777328
989	7.47118301314
990	7.47272727273
991	7.47325933401
992	7.47379032258
993	7.47532729104
994	7.47585513078
995	7.47738693467
996	7.47891566265
997	7.47943831494
998	7.47995991984

#of vertex in left set	ratio
999	7.48148148148
1000	7.482