

[0.01 s] Golbach's conjecture is True for even numbers < 10_002.

nombre de decompositions de Goldbach des nombres de 6 à 102

```
6 --> 1
8 --> 1
10 --> 2
12 --> 1
14 --> 2
16 --> 2
18 --> 2
20 --> 2
22 --> 3
24 --> 3
26 --> 3
28 --> 2
30 --> 3
32 --> 2
34 --> 4
36 --> 4
38 --> 2
40 --> 3
42 --> 4
44 --> 3
46 --> 4
48 --> 5
50 --> 4
52 --> 3
54 --> 5
56 --> 3
58 --> 4
60 --> 6
62 --> 3
64 --> 5
66 --> 6
68 --> 2
70 --> 5
72 --> 6
74 --> 5
76 --> 5
78 --> 7
80 --> 4
82 --> 5
84 --> 8
86 --> 5
88 --> 4
90 --> 9
92 --> 4
94 --> 5
96 --> 7
98 --> 3
100 --> 6
102 --> 8
6 --> 1.3523667106153747 1 6.5636096035320035
rate denise
rate Hardy-Littlewood
8 --> 1.3387491051392044 1 2.7480806518960215
rate denise
rate Hardy-Littlewood
10 --> 1.364807060927632 2 3.3981354233799057
rate Hardy-Littlewood
12 --> 1.4062538600621377 1 4.935171234691347
rate denise
rate Hardy-Littlewood
14 --> 1.4545646349798012 2 2.928964556152162
rate Hardy-Littlewood
```

16	-->	1.5060927432816045	2	2.4427383572409087
rate Hardy-Littlewood				
18	-->	1.5590776043675552	2	4.922707202649002
rate Hardy-Littlewood				
20	-->	1.6125999329123941	2	3.3203797437105758
rate Hardy-Littlewood				
22	-->	1.6661549174345693	3	2.806532974553461
24	-->	1.7194572460018058	3	5.131820788234531
rate Hardy-Littlewood				
26	-->	1.7723442853078735	3	2.8461299153531514
28	-->	1.824724796031489	2	3.1848723378964934
rate Hardy-Littlewood				
30	-->	1.8765503462484292	3	7.201566345041905
rate Hardy-Littlewood				
32	-->	1.9277987114004542	2	2.7480806518960215
rate Hardy-Littlewood				
34	-->	1.9784639108210693	4	2.9826307041487254
36	-->	2.028550065923062	4	5.689518150165844
rate Hardy-Littlewood				
38	-->	2.078067532798084	2	3.063743934317993
rate denise				
rate Hardy-Littlewood				
40	-->	2.127030426552568	3	3.923224245566285
rate Hardy-Littlewood				
42	-->	2.1754550175137735	4	7.17914251631114
rate Hardy-Littlewood				
44	-->	2.2233586845689297	3	3.37792986527423
rate Hardy-Littlewood				
46	-->	2.270759230476031	4	3.2359336686712443
48	-->	2.3176744355834673	5	6.274789133110477
rate Hardy-Littlewood				
50	-->	2.3641217702937998	4	4.2476692792248825
rate Hardy-Littlewood				
52	-->	2.410118214092082	3	3.5278849090653805
rate Hardy-Littlewood				
54	-->	2.4556801464916664	5	6.5636096035320035
rate Hardy-Littlewood				
56	-->	2.5008232866214017	3	3.99536423985395
rate Hardy-Littlewood				
58	-->	2.545562665662737	4	3.501951415482076
60	-->	2.589912621336811	6	9.13075545418319
rate Hardy-Littlewood				
62	-->	2.6338868070095347	3	3.5906080648331633
rate Hardy-Littlewood				
64	-->	2.677498210278409	5	3.5175432344269075
66	-->	2.7207591774836932	6	7.9197756489745865
rate Hardy-Littlewood				
68	-->	2.7636814416807804	2	3.8506550449337205
rate denise				
rate Hardy-Littlewood				
70	-->	2.806276152373652	5	5.849303771248616
rate Hardy-Littlewood				
72	-->	2.848553905844244	6	7.402756852037021
rate Hardy-Littlewood				
74	-->	2.890524775288803	5	3.853730548466671
76	-->	2.9321983402376484	5	4.014773041521281
78	-->	2.973583714921852	7	8.37059929731511
rate Hardy-Littlewood				
80	-->	3.014689575382187	4	5.174759821202083
rate Hardy-Littlewood				
82	-->	3.0555241852080983	5	4.026019970247219
84	-->	3.0960954198588864	8	9.526625824659849
rate Hardy-Littlewood				
86	-->	3.136410789563527	5	4.1111318380568145

88	-->	3.1764774608256294	4	4.50759387571603
rate Hardy-Littlewood				
90	-->	3.216302276579602	9	10.933844604697722
rate Hardy-Littlewood				
92	-->	3.2558917750565497	4	4.340624653804268
rate Hardy-Littlewood				
94	-->	3.2952522074255577	5	4.279261376682818
96	-->	3.334389554279504	7	8.457854009631959
rate Hardy-Littlewood				
98	-->	3.373309541035483	3	5.125687973266284
rate denise				
rate Hardy-Littlewood				
100	-->	3.4120176523190797	6	5.751569040398561
102	-->	3.4505191453997446	8	9.29224801027574
rate Hardy-Littlewood				
104	-->	3.488819062741725	5	4.797386008487665
106	-->	3.526922243731837	6	4.526312714655961
108	-->	3.5648333356418065	8	8.961476148029138
rate Hardy-Littlewood				
110	-->	3.6025568038794527	6	6.6992842841687255
rate Hardy-Littlewood				
112	-->	3.6400969415793445	7	5.4757297929483215
114	-->	3.677457878580145	10	9.749679394636514
116	-->	3.7146435898325456	6	4.816768991970472
118	-->	3.7516579032784283	6	4.767488239293589
120	-->	3.7885045072390318	12	12.601771564725354
rate Hardy-Littlewood				
122	-->	3.82518695734694	4	4.846644523602333
rate Hardy-Littlewood				
124	-->	3.8617086830542298	5	4.9716222410708495
126	-->	3.898072993746551	10	11.629848997883393
rate Hardy-Littlewood				
128	-->	3.934283084490723	3	4.885476714481817
rate denise				
rate Hardy-Littlewood				
130	-->	3.970342041441311	7	7.163670073521628
rate Hardy-Littlewood				
132	-->	4.006252846929708	9	11.032027797261573
rate Hardy-Littlewood				
134	-->	4.04201838425745	6	5.0806265457494115
136	-->	4.077641442213874	5	5.378912310602287
rate Hardy-Littlewood				
138	-->	4.113124719336689	8	10.647295634353561
rate Hardy-Littlewood				
140	-->	4.148470827932626	7	8.192720648968217
rate Hardy-Littlewood				
142	-->	4.183682297874073	8	5.23386187256085
144	-->	4.2187615801864125	11	10.395184372878612
146	-->	4.253711050439653	6	5.309697783864209
148	-->	4.288533011957001	5	5.424864699777897
rate Hardy-Littlewood				
150	-->	4.323229698852075	12	14.16602784186845
rate Hardy-Littlewood				
152	-->	4.357803278905586	4	5.664931799848005
rate denise				
rate Hardy-Littlewood				
154	-->	4.39225585629158	8	7.184046458387559
156	-->	4.426589474162577	11	11.837949545895457
rate Hardy-Littlewood				
158	-->	4.460806117102293	5	5.534243251550899
rate Hardy-Littlewood				
160	-->	4.49490771345405	8	7.334307160508764
162	-->	4.528896137532327	10	11.076091205960255
rate Hardy-Littlewood				

164	-->	4.5627732117245134	5	5.71819377452012
rate Hardy-Littlewood				
166	-->	4.596540708489328	6	5.681599930394274
168	-->	4.630200352257984	13	13.558240618621294
rate Hardy-Littlewood				
170	-->	4.663753821243772	9	8.086904912746034
172	-->	4.69720274916534	6	5.862409228782813
174	-->	4.730548726888566	11	11.945500330511962
rate Hardy-Littlewood				
176	-->	4.763793303991689	7	6.439928225770587
178	-->	4.796937990257938	7	5.8993610242201955
180	-->	4.829984257099734	14	15.649603866419897
rate Hardy-Littlewood				
182	-->	4.862933538918208	6	7.729884307325503
rate Hardy-Littlewood				
184	-->	4.895787234401562	8	6.223735180398808
186	-->	4.928546707765591	13	12.36579110793954
188	-->	4.961213289939456	5	6.1462714362933095
rate Hardy-Littlewood				
190	-->	4.993788279699608	8	8.538935842800278
rate Hardy-Littlewood				
192	-->	5.026272944754605	11	12.16813700334841
rate Hardy-Littlewood				
194	-->	5.05866852278337	7	6.184042075400118
196	-->	5.090976222429303	9	7.386100270858997
198	-->	5.123197224252497	13	13.756545566416404
rate Hardy-Littlewood				
200	-->	5.155332681642209	8	8.30094935927644
rate Hardy-Littlewood				
202	-->	5.187383721691554	9	6.3241255445110305
204	-->	5.21935144603635	14	13.431388747808764
206	-->	5.251236931659821	7	6.393633397247951
208	-->	5.283041231664928	7	6.944560503247885
210	-->	5.3147653760157985	19	20.482092163759646
rate Hardy-Littlewood				
212	-->	5.346410372249833	6	6.561555567853488
rate Hardy-Littlewood				
214	-->	5.377977206161833	8	6.53162126292308
216	-->	5.409466842461498	13	13.009091984024643
rate Hardy-Littlewood				
218	-->	5.440880225405564	7	6.600116396862743
220	-->	5.47221827940572	9	9.738337527387952
rate Hardy-Littlewood				
222	-->	5.503481909613472	11	13.592916679797385
rate Hardy-Littlewood				
224	-->	5.5346720024829805	7	7.970250188750585
rate Hardy-Littlewood				
226	-->	5.565789426312884	7	6.736144895092614
228	-->	5.596835031768077	12	14.209508131214491
rate Hardy-Littlewood				
230	-->	5.627809652382292	9	9.420204921708693
rate Hardy-Littlewood				
232	-->	5.658714105042403	7	7.028929321238671
rate Hardy-Littlewood				
234	-->	5.689549190455192	15	14.861899068577072
236	-->	5.72031569359741	9	6.965529349898873
238	-->	5.751014384149803	9	8.805232376471164
240	-->	5.781646016915824	18	18.433775710748186
rate Hardy-Littlewood				
242	-->	5.812211332225677	8	7.717965680022017
244	-->	5.842711056326332	9	7.097896520038248
246	-->	5.873145901758069	16	14.385546799327596
248	-->	5.9035165677181345	6	7.289211034473786
rate Hardy-Littlewood				

250	-->	5.933823740412074	9	9.43926506494418
rate Hardy-Littlewood				
252	-->	5.9640680933931645	16	17.070214070008877
rate Hardy-Littlewood				
254	-->	5.994250287890549	9	7.202824520982524
256	-->	6.024370973126418	8	7.178659662095731
258	-->	6.054430786622769	14	14.774967211328303
rate Hardy-Littlewood				
260	-->	6.084430354498102	10	10.53738816469698
rate Hardy-Littlewood				
262	-->	6.11437029175448	9	7.3336628003306155
264	-->	6.144251202555335	16	16.244397202056945
rate Hardy-Littlewood				
266	-->	6.174073680494359	8	9.329473536618073
rate Hardy-Littlewood				
268	-->	6.203838308855856	9	7.48870325704356
270	-->	6.233545660866866	19	19.75405309888137
rate Hardy-Littlewood				
272	-->	6.263196299941378	7	7.936253224035536
rate Hardy-Littlewood				
274	-->	6.292790779916952	11	7.527994020142364
276	-->	6.322329645283996	16	15.724723538551348
278	-->	6.351813431408023	7	7.59227618030538
rate Hardy-Littlewood				
280	-->	6.38124266474513	14	12.111161114667286
282	-->	6.4106178630509225	16	15.541110820196272
284	-->	6.439939535583183	8	7.744357718781585
286	-->	6.469208183298454	12	9.291827254600058
288	-->	6.498424299042792	17	15.395462364703594
290	-->	6.527588367736918	10	10.687905119209958
rate Hardy-Littlewood				
292	-->	6.556700866555886	8	7.870818389104952
294	-->	6.585762265103589	19	18.703917852019885
296	-->	6.614773025582165	8	8.04861163941183
rate Hardy-Littlewood				
298	-->	6.643733602956555	11	7.910169027303551
300	-->	6.672644445114364	21	21.035595038202338
rate Hardy-Littlewood				
302	-->	6.701505993021175	9	7.973071998013354
304	-->	6.730318680871502	10	8.419163885807725
306	-->	6.75908293623549	15	17.030169041139004
rate Hardy-Littlewood				
308	-->	6.7877991802015565	8	10.685728255620463
rate Hardy-Littlewood				
310	-->	6.816467827515062	12	11.097443286100576
312	-->	6.845089286713188	17	17.622420580449553
rate Hardy-Littlewood				
314	-->	6.8736639602561205	9	8.160496667981308
316	-->	6.902192244654655	10	8.245082083503808
318	-->	6.930674530594392	15	16.66143936713687
rate Hardy-Littlewood				
320	-->	6.9591112030565725	11	10.935465494629813
322	-->	6.987502641435687	11	10.349595875627614
324	-->	7.015849219653997	20	16.527231680143803
326	-->	7.044151306273001	7	8.346066735718344
rate denise				
rate Hardy-Littlewood				
328	-->	7.07240926460201	10	8.538901933794824
330	-->	7.100623452803877	24	24.759291798854388
rate Hardy-Littlewood				
332	-->	7.128794223997987	6	8.490586731842042
rate denise				
rate Hardy-Littlewood				
334	-->	7.156921926360621	11	8.468792626387202

336	-->	7.185006903222725	19	20.276303529172267
rate Hardy-Littlewood				
338	-->	7.213049493165188	9	9.249922224897743
rate Hardy-Littlewood				
340	-->	7.241050030111738	13	12.102660103715449
342	-->	7.2690088434194795	17	18.085177507201937
rate Hardy-Littlewood				
344	-->	7.296926257967156	10	8.77975705153183
346	-->	7.324802594241248	9	8.65145994730202
348	-->	7.352638168419924	16	17.902494195129087
rate Hardy-Littlewood				
350	-->	7.3804332924549065	13	13.859059819281681
rate Hardy-Littlewood				
352	-->	7.4081882741513745	10	9.658021295116967
354	-->	7.435903417245895	20	17.75101270110155
356	-->	7.46357902148248	9	8.853302070277028
358	-->	7.491215382686803	10	8.83248817696337
360	-->	7.51881279283865	22	23.501317290686707
rate Hardy-Littlewood				
362	-->	7.546371540142643	8	8.892478932153102
rate Hardy-Littlewood				
364	-->	7.573891909097286	14	11.615713710673754
366	-->	7.601374180562377	18	18.108019132962994
rate Hardy-Littlewood				
368	-->	7.628818631824861	8	9.358444736991656
rate Hardy-Littlewood				
370	-->	7.656225536663141	14	12.292072298209415
372	-->	7.683595165409875	18	18.605865949345045
rate Hardy-Littlewood				
374	-->	7.710927785013362	10	10.693521376243005
rate Hardy-Littlewood				
376	-->	7.738223659097496	11	9.25360537339159
378	-->	7.765483048020356	22	21.797231129292943
380	-->	7.792706208931467	13	12.863827406293746
382	-->	7.819893395827771	10	9.189902561547429
384	-->	7.84704485960833	19	18.34230128555361
386	-->	7.874160848127822	12	9.24889733534983
388	-->	7.901241606248835	9	9.327421629438364
rate Hardy-Littlewood				
390	-->	7.928287375892995	27	26.93747169167592
392	-->	7.955298396090997	11	11.147053182637729
rate Hardy-Littlewood				
394	-->	7.9822749030315014	11	9.36641435805072
396	-->	8.009217130109008	21	20.77333953572436
398	-->	8.036125307970641	7	9.424940742026756
rate denise				
rate Hardy-Littlewood				
400	-->	8.06299966456197	14	12.542184678162045
402	-->	8.089840425171817	17	19.162132295604227
rate Hardy-Littlewood				
404	-->	8.116647812476108	11	9.560727469404064
406	-->	8.143422046580824	13	11.815133749546202
408	-->	8.170163345063981	20	20.31669303345672
rate Hardy-Littlewood				
410	-->	8.196871923016781	13	13.063327589192395
rate Hardy-Littlewood				
412	-->	8.22354799308388	11	9.676497086393264
414	-->	8.250191765502807	21	20.136628501903115
416	-->	8.276803448142571	10	10.515993754522295
rate Hardy-Littlewood				
418	-->	8.303383246541477	11	11.374849078703704
rate Hardy-Littlewood				
420	-->	8.329931363944146	30	31.032147711960707
rate Hardy-Littlewood				

422	-->	8.3564480013378	11	9.772972463557133
424	-->	8.382933357487778	12	9.946567097818006
426	-->	8.40938762897236	21	19.851804749157683
428	-->	8.435811010216867	9	9.906341193363758
rate Hardy-Littlewood				
430	-->	8.462203693527083	14	13.44222812470283
432	-->	8.488565869122008	19	19.740684938765384
rate Hardy-Littlewood				
434	-->	8.514897725165957	13	12.288437193064931
436	-->	8.541199447800029	11	10.020442534611643
438	-->	8.56747122117292	21	20.19299447067001
440	-->	8.5937132274712	14	14.792357630838408
rate Hardy-Littlewood				
442	-->	8.619925646948918	13	11.651933958861848
444	-->	8.646108657956683	21	20.657594767957246
446	-->	8.672262436970165	12	10.115925633437218
448	-->	8.698387158618042	13	12.118556533091445
450	-->	8.724482995709401	27	27.005873793907142
rate Hardy-Littlewood				
452	-->	8.750550119260653	12	10.247066950475388
454	-->	8.776588698521877	12	10.229176974630501
456	-->	8.802598901002712	24	21.625882748024896
458	-->	8.828580892497731	9	10.28560963089879
rate Hardy-Littlewood				
460	-->	8.854534837111354	16	14.343636845448206
462	-->	8.880460897282294	28	27.458535235624453
464	-->	8.90635923380752	12	10.7075417954788
466	-->	8.932230005865817	13	10.398096201658772
468	-->	8.958073371040873	24	22.6503111102991
470	-->	8.983889485343967	15	14.187731722309351
472	-->	9.009678503236223	13	10.620645027261377
474	-->	9.035440577650458	23	21.202938350507466
476	-->	9.061175860012655	14	13.431737074823374
478	-->	9.086884500263004	11	10.565900225691609
480	-->	9.112566646876619	29	28.13183030695085
482	-->	9.138222446883827	11	10.62159343157432
484	-->	9.163852045890131	14	11.783563483184592
486	-->	9.189455588095809	23	21.266095115443694
488	-->	9.215033216315147	9	10.841550736398766
rate denise				
rate Hardy-Littlewood				
490	-->	9.240585071995364	19	17.101822873307455
492	-->	9.266111295235168	22	21.98234037541686
494	-->	9.291612024803015	13	12.410312682346186
496	-->	9.317087398155044	13	11.143248142057105
498	-->	9.342537551452674	23	21.865595235310046
500	-->	9.36796261957993	13	14.436141718831486
rate Hardy-Littlewood				
502	-->	9.393362736160451	15	10.898306330603617
504	-->	9.418738033574217	27	26.11749940179557
506	-->	9.444088642973972	15	12.69928625735846
508	-->	9.469414694301383	14	11.02486203373182
510	-->	9.494716316302918	32	31.18892607714645
512	-->	9.519993636545452	11	10.992322607584086
514	-->	9.545246781431612	14	11.062975371753401
516	-->	9.570475876214877	23	22.633228425708552
518	-->	9.595681045014397	11	13.66916370671473
rate Hardy-Littlewood				
520	-->	9.620862410829593	17	16.148232000469342
522	-->	9.646020095554498	24	23.082863731955737
524	-->	9.671154219991866	11	11.243023978616074
rate Hardy-Littlewood				
526	-->	9.696264903867043	15	11.226663421944046
528	-->	9.721352265841626	25	24.91346923347999

530	-->	9.746416423526874	14	15.278187422046981
rate Hardy-Littlewood				
532	-->	9.771457493496921	17	14.313781921479045
534	-->	9.796475591301771	22	22.844890108029773
rate Hardy-Littlewood				
536	-->	9.821470831480063	13	11.493936873380965
538	-->	9.846443327571663	14	11.389399720566256
540	-->	9.871393192130025	30	30.330644288679835
rate Hardy-Littlewood				
542	-->	9.896320536734372	10	11.44343849168585
rate Hardy-Littlewood				
544	-->	9.921225472001671	13	12.18996631572151
546	-->	9.946108107598418	30	29.991549831748827
548	-->	9.97096855225226	11	11.567145302439306
rate Hardy-Littlewood				
550	-->	9.995806913763404	19	17.0504508436349
552	-->	10.020623299015838	23	24.170647032485537
rate Hardy-Littlewood				
554	-->	10.045417813988431	11	11.604948729789404
rate Hardy-Littlewood				
556	-->	10.070190563765799	11	11.674384987573214
rate Hardy-Littlewood				
558	-->	10.094941652549041	23	24.03444680924227
rate Hardy-Littlewood				
560	-->	10.119671183666288	18	18.629577314162137
rate Hardy-Littlewood				
562	-->	10.144379259583093	14	11.71212672718475
564	-->	10.16906598191267	24	23.91404055317769
566	-->	10.193731451425977	13	11.765569866055948
568	-->	10.21837576806162	13	11.920884976429317
570	-->	10.24299903093564	31	33.2535559469567
rate Hardy-Littlewood				
572	-->	10.267601338351126	11	14.307868405737215
rate Hardy-Littlewood				
574	-->	10.292182787807695	16	14.560809651852317
576	-->	10.316743476010833	26	23.714600795565207
578	-->	10.341283498881081	12	12.676180492632083
rate Hardy-Littlewood				
580	-->	10.365802951563092	19	16.468859408404537
582	-->	10.390301928434551	25	24.125479177535695
584	-->	10.414780523114983	12	12.132136184241878
rate Hardy-Littlewood				
586	-->	10.439238828474377	13	12.03136252078819
588	-->	10.463676936641741	29	28.83998628549394
590	-->	10.48809493901351	16	16.339230309008286
rate Hardy-Littlewood				
592	-->	10.512492926261809	15	12.414440793000436
594	-->	10.53687098834263	27	26.880062129494544
596	-->	10.561229214503868	12	12.20490347635567
rate Hardy-Littlewood				
598	-->	10.585567693293248	15	13.884371633521418
600	-->	10.609886512566124	32	32.46717296067011
rate Hardy-Littlewood				
602	-->	10.634185759493198	12	14.99895647769711
rate Hardy-Littlewood				
604	-->	10.658465520568086	14	12.309917983688004
606	-->	10.68272588161482	27	24.755857342384644
608	-->	10.706966927795184	13	13.002802639636565
rate Hardy-Littlewood				
610	-->	10.73118874361602	20	16.687020953406346
612	-->	10.755391412936367	26	26.3102062819426
rate Hardy-Littlewood				
614	-->	10.779575018974525	15	12.399640235573209
616	-->	10.803739644315025	19	16.51374142730316

618	-->	10.827885370915492	26	25.068715508587182
620	-->	10.852012280113406	18	17.15533255093049
622	-->	10.876120452632794	17	12.504074503912415
624	-->	10.900209968590778	31	27.250560058770645
626	-->	10.924280907504107	12	12.556164048102902
rate Hardy-Littlewood				
628	-->	10.948333348295519	16	12.622894578245296
630	-->	10.972367369300072	41	40.21765146054538
632	-->	10.996383048271374	10	12.757591367873388
rate denise				
rate Hardy-Littlewood				
634	-->	11.020380462387706	14	12.660091525199178
636	-->	11.044359688258087	28	25.787926646822715
638	-->	11.068320801928246	15	14.601431045994774
640	-->	11.09226387888652	18	16.930518997427438
642	-->	11.116188994069647	25	25.68996139252109
rate Hardy-Littlewood				
644	-->	11.140096221868527	17	16.028186076379356
646	-->	11.163985636133866	16	14.428873234809947
648	-->	11.187857310181744	27	25.602831675746298
650	-->	11.211711316799143	21	18.657813145105855
652	-->	11.235547728249365	15	12.93288967696827
654	-->	11.259366616277411	29	25.998420884464593
656	-->	11.283168052115249	13	13.235505326216666
rate Hardy-Littlewood				
658	-->	11.306952106487037	19	15.861251459305137
660	-->	11.330718849614295	41	38.388439990080336
662	-->	11.354468351220964	14	13.021267537316726
664	-->	11.378200680538443	16	13.168086500467902
666	-->	11.40191590631052	31	26.811095374193705
668	-->	11.425614096798279	11	13.137967459882017
rate denise				
rate Hardy-Littlewood				
670	-->	11.449295319784909	21	17.71433948737878
672	-->	11.472959642580475	33	31.464163480074127
674	-->	11.496607132026615	15	13.174872525242506
676	-->	11.520237854501177	17	14.35771179799798
678	-->	11.543851875922805	28	26.61118153869822
680	-->	11.56744926175545	21	18.790864755607817
682	-->	11.59103007701284	16	15.215912273857013
684	-->	11.614594386262905	30	28.08707636545893
686	-->	11.638142253632088	16	15.946584805717329
688	-->	11.661673742809683	16	13.639019473723769
690	-->	11.685188917052047	39	37.26652612586273
692	-->	11.708687839186807	11	13.443304003677328
rate denise				
rate Hardy-Littlewood				
694	-->	11.73217057161699	19	13.42936269191629
696	-->	11.755637176325106	30	27.825643435576634
698	-->	11.779087714877193	14	13.480038241218221
700	-->	11.802522248426783	24	21.54664222274902
702	-->	11.825940837718845	31	29.437051566662102
704	-->	11.849343543093681	18	15.019215894618632
706	-->	11.872730424490747	19	13.581171342706188
708	-->	11.89610154145246	24	27.611794481889167
rate Hardy-Littlewood				
710	-->	11.919456953127922	16	18.38683244054066
rate Hardy-Littlewood				
712	-->	11.942796718276654	17	13.774895513922198
714	-->	11.966120895272203	37	34.927576999520305
716	-->	11.989429542105785	14	13.74601388341392
718	-->	12.012722716389852	15	13.73233411454718
720	-->	12.036000475361593	39	36.58438530809619
722	-->	12.05926287588643	14	14.552783688010466

rate Hardy-Littlewood				
724	-->	12.082509974461445	15	13.84635353519184
726	-->	12.1057418272188	31	30.654545524089475
728	-->	12.128958489929063	15	18.0911705635264
rate Hardy-Littlewood				
730	-->	12.152160018004553	21	18.719628840515405
732	-->	12.1753464665026	31	28.209741351383965
734	-->	12.198517890128779	15	13.932904291422332
736	-->	12.221674343240126	19	14.582716559411944
738	-->	12.244815879848312	29	28.604878439818567
740	-->	12.26794255362272	18	19.158683803696576
rate Hardy-Littlewood				
742	-->	12.291054417893584	19	17.123112999230568
744	-->	12.314151525655019	31	29.00651046512334
746	-->	12.33723392956804	18	14.082614420787976
748	-->	12.360301681963536	19	16.675182989794546
750	-->	12.383354834845251	39	37.58559094161037
752	-->	12.406393439892648	14	14.433257319844914
rate Hardy-Littlewood				
754	-->	12.429417548463832	17	16.001709780435256
756	-->	12.452427211598362	35	34.00615078255031
758	-->	12.475422480020104	15	14.231724056764547
760	-->	12.498403404139971	21	20.07374403659701
762	-->	12.521370034058704	30	28.715326716149637
764	-->	12.544322419569573	17	14.344003675591699
766	-->	12.567260610161082	17	14.330803085858268
768	-->	12.590184655019598	31	28.636101261949648
770	-->	12.613094603032023	26	25.498306106817243
772	-->	12.635990502788335	18	14.442750270539452
774	-->	12.658872402584215	32	29.486544523985152
776	-->	12.681740350423544	16	14.56869757834886
778	-->	12.704594394020932	15	14.478939547998214
780	-->	12.7274345808042	44	42.08375031120666
782	-->	12.750260957916833	14	16.193050182741263
rate Hardy-Littlewood				
784	-->	12.773073572220422	18	17.418689546081534
786	-->	12.795872470297041	30	29.3058167712716
788	-->	12.818657698451641	15	14.639488366817169
790	-->	12.841429302714394	22	19.70514318278948
792	-->	12.864187328843022	34	32.47546006456344
794	-->	12.886931822325076	17	14.675573198063082
796	-->	12.90966282838024	14	14.737486581235457
rate Hardy-Littlewood				
798	-->	12.932380391962548	38	37.32373413913163
800	-->	12.955084557762628	21	19.616121227831425
802	-->	12.97777537020988	16	14.773519752028635
804	-->	13.000452873474691	32	29.976318057779583
806	-->	13.023117111470546	16	16.685864852589894
rate Hardy-Littlewood				
808	-->	13.045768127856165	14	14.959575358908252
rate Hardy-Littlewood				
810	-->	13.068405966037643	39	39.558436915063666
rate Hardy-Littlewood				
812	-->	13.091030669170483	18	18.49099218727912
rate Hardy-Littlewood				
814	-->	13.113642280161699	20	17.009413883724903
816	-->	13.13624084167183	34	31.80293613700234
818	-->	13.158826396116972	17	14.968688516483738
820	-->	13.181398985670759	20	20.453141767573612
rate Hardy-Littlewood				
822	-->	13.203958652266364	29	30.1833452660403
rate Hardy-Littlewood				
824	-->	13.226505437598426	16	15.153598900695398
826	-->	13.249039383124998	21	18.35162642386257

828	-->	13.271560530069456	34	31.540980034635563
830	-->	13.294068919422399	22	20.352110144516764
832	-->	13.316564591943507	22	16.475134217463978
834	-->	13.339047588163426	33	30.473750132811897
836	-->	13.36151794838556	18	17.82435881493521
838	-->	13.38397571268792	17	15.211323331261385
840	-->	13.406420920924909	51	48.63726660125677
842	-->	13.428853612729103	18	15.259677225142424
844	-->	13.451273827513004	17	15.320483878467453
846	-->	13.473681604470801	32	31.222141112364348
848	-->	13.496076982580062	15	15.595774231917225
rate Hardy-Littlewood				
850	-->	13.51846000060347	25	21.78844068508907
852	-->	13.540830697090502	31	31.133007412035898
rate Hardy-Littlewood				
854	-->	13.563189110379092	20	18.75446080564806
856	-->	13.585535278597305	19	15.538932001086685
858	-->	13.60786923966495	39	37.373148817111166
860	-->	13.630191031295231	18	21.089457284038534
rate Hardy-Littlewood				
862	-->	13.65250069099632	17	15.500601129241746
864	-->	13.674798256072974	33	30.977194108845744
866	-->	13.697083763628088	17	15.548619232830209
868	-->	13.71935725056427	21	19.286867513768023
870	-->	13.741618753585369	46	43.03190922257162
872	-->	13.763868309198003	18	15.730285302679535
874	-->	13.786105953713072	19	17.31375184562115
876	-->	13.808331723247257	36	31.705496323623386
878	-->	13.830545653724501	14	15.692346285730178
rate Hardy-Littlewood				
880	-->	13.852747780877472	25	23.230301305054276
882	-->	13.87493814024901	39	37.69049821063349
884	-->	13.897116767193584	21	18.302000491575562
886	-->	13.91928369687869	18	15.787894894752052
888	-->	13.941438964286291	37	32.453601539745954
890	-->	13.963582604214178	23	21.308709222045562
892	-->	13.985714651277384	19	15.895378401312408
894	-->	14.007835139909533	34	31.910850540021208
896	-->	14.0299441043642	20	19.04573504647415
898	-->	14.052041578716262	19	15.930820091944312
900	-->	14.07412759686322	48	42.45083051315911
902	-->	14.096202192526517	15	18.16848952850881
rate Hardy-Littlewood				
904	-->	14.118265399252842	17	16.110468085918132
906	-->	14.140317250415414	34	32.19540938201354
908	-->	14.162357779215284	15	16.085309652690885
rate Hardy-Littlewood				
910	-->	14.184387018682576	31	27.99337628211589
912	-->	14.206405001677759	31	34.01278948378084
rate Hardy-Littlewood				
914	-->	14.228411760892874	20	16.12065769052453
916	-->	14.250407328852784	18	16.179967647263037
918	-->	14.27239173791638	35	34.416400189649515
920	-->	14.294365020277796	23	22.567613331615167
922	-->	14.316327207967607	20	16.215269365390533
924	-->	14.338278332853996	47	43.20977421982063
926	-->	14.360218426643954	18	16.262499453931515
928	-->	14.382147520884429	18	16.85280648063911
930	-->	14.40406564696348	43	44.895253123758806
rate Hardy-Littlewood				
932	-->	14.425972836111411	17	16.368680097670055
934	-->	14.447869119401924	20	16.35680957462634
936	-->	14.46975452775322	36	35.66242983597939
938	-->	14.491629091929104	18	19.944800905947538

rate Hardy-Littlewood		
940	-->	14.513492842540112 24 22.342214335383446
942	-->	14.53534581004457 34 33.04365741272773
944	-->	14.55718802474969 18 16.72785250291712
946	-->	14.579019516812643 20 18.738317832623927
948	-->	14.600840316241602 33 33.40111507547089
rate Hardy-Littlewood		
950	-->	14.622650452896808 25 23.308140370950305
952	-->	14.644449956491611 23 21.16275905618675
954	-->	14.666238856593477 37 33.76302108603003
956	-->	14.688017182625046 19 16.6502737205317
958	-->	14.709784963865113 22 16.638559681960416
960	-->	14.731542229449646 45 44.33913418785588
962	-->	14.753289008372786 16 18.683256783779854
rate Hardy-Littlewood		
964	-->	14.775025329487814 18 16.74375362059085
966	-->	14.79675122150814 45 41.981974863674154
968	-->	14.818466713008267 17 18.578614259008262
rate Hardy-Littlewood		
970	-->	14.84017183242475 27 22.560495041933006
972	-->	14.86186660805715 32 33.53494028273407
rate Hardy-Littlewood		
974	-->	14.88355106806897 17 16.825431276863675
976	-->	14.905225240488592 19 17.099125592408992
978	-->	14.926889153210187 35 33.884076017994836
980	-->	14.948542833994672 26 26.977221063525533
rate Hardy-Littlewood		
982	-->	14.970186310470563 17 16.918584833625417
984	-->	14.991819610134929 39 34.68172183282241
986	-->	15.013442760354241 20 18.728180991761164
988	-->	15.035055788365282 23 19.583078752835473
990	-->	15.056658721276031 52 50.30256769215695
992	-->	15.078251586066507 13 17.5865716048977
rate denise		
rate Hardy-Littlewood		
994	-->	15.099834409589631 25 20.724354611545113
996	-->	15.121407218572124 37 34.51448835407796
998	-->	15.14297003961529 17 17.104337573730078
rate Hardy-Littlewood		
1000	-->	15.164522899195916 28 22.79090884886651
1002	-->	15.18606582366705 36 34.44019178902911
1004	-->	15.207598839258871 18 17.208361210735003
1006	-->	15.229121972079474 18 17.19694068717401
1008	-->	15.250635248115707 42 41.2459886616736
1010	-->	15.272138693233954 25 23.177053364553796
1012	-->	15.293632333180938 23 20.058510948052724
1014	-->	15.315116193584517 39 37.64769924037768
1016	-->	15.336590299954462 18 17.416521755150946
1018	-->	15.358054677683239 20 17.335509173251907
1020	-->	15.379509352046766 51 49.27846913101852
1022	-->	15.400954348205188 18 21.1102317030399
rate Hardy-Littlewood		
1024	-->	15.422389691203634 22 17.370583873713123
1026	-->	15.443815405972956 42 36.833565923010305
1028	-->	15.465231517330498 18 17.484962466808657
1030	-->	15.486638049980796 25 23.483139310836343
1032	-->	15.508035028516346 36 35.7772306403609
1034	-->	15.52942247741831 21 19.86029732785663
1036	-->	15.550800421057238 27 21.610721409392024
1038	-->	15.57216888369378 40 35.26837918772759
1040	-->	15.593527889479407 26 25.534012093641028
1042	-->	15.614877462457091 22 17.611458780610043
1044	-->	15.636217626562015 39 36.504817672673084
1046	-->	15.657548405622252 19 17.657299089939244

1048	-->	15.678869823359479	19	17.78319166290832
1050	-->	15.700181903389606	57	56.541799112542314
1052	-->	15.721484669223488	18	17.760002166759023
1054	-->	15.74277814426758	24	19.547706412934993
1056	-->	15.764062351824599	44	39.41775858417714
1058	-->	15.785337315094177	19	18.606618594859654
1060	-->	15.806603057173511	27	24.176566623233967
1062	-->	15.827859601058023	37	36.2379425910476
1064	-->	15.849106969641984	24	22.653845557236384
1066	-->	15.87034518571915	24	19.974540142155842
1068	-->	15.891574271983405	39	36.16105015742623
1070	-->	15.91279425102938	25	24.091105855728824
1072	-->	15.934005145353055	21	18.196374586300845
1074	-->	15.955206977352404	40	36.08967106713443
1076	-->	15.976399769327985	20	18.033527096037275
1078	-->	15.997583543483554	27	23.985340340038523
1080	-->	16.018758321926644	54	48.03136638972737
1082	-->	16.039924126669202	20	18.067968465440348
1084	-->	16.061080979628134	21	18.12437319372971
1086	-->	16.082228902625925	39	36.361955432316286
1088	-->	16.103367917391193	18	19.309534385104705
rate Hardy-Littlewood				
1090	-->	16.124498045559285	26	24.393054301187036
1092	-->	16.145619308672842	48	47.51500031356588
1094	-->	16.16673172818237	23	18.204117030694974
1096	-->	16.18783532544678	18	18.328218128281218
rate Hardy-Littlewood				
1098	-->	16.208930121733992	40	37.04973031847411
1100	-->	16.230016138221448	28	27.020404363923344
1102	-->	16.251093395996666	24	20.051753603176714
1104	-->	16.272161916057808	44	38.30944642164935
1106	-->	16.293221719314204	25	22.25331431536019
1108	-->	16.314272826586883	25	18.395947079020598
1110	-->	16.33531525860914	54	50.33664206738345
1112	-->	16.356349036027	16	18.508616918486588
rate denise				
rate Hardy-Littlewood				
1114	-->	16.37737417939981	23	18.430230273642533
1116	-->	16.398390709200715	41	38.109638051688414
1118	-->	16.419398645817193	22	20.609492648198994
1120	-->	16.44039800955156	34	29.54364950757433
1122	-->	16.461388820621487	47	43.82181339348503
1124	-->	16.482371099160485	19	18.576207944552433
1126	-->	16.503344865218423	23	18.56542598930063
1128	-->	16.524310138762026	39	37.934480181862554
1130	-->	16.54526693967535	26	24.993040750970774
1132	-->	16.566215287760283	22	18.666106312028298
1134	-->	16.587155202737033	49	44.69376669889187
1136	-->	16.608086704244588	23	18.915097184365752
1138	-->	16.62900981184124	20	18.700273642504797
1140	-->	16.64992454500499	58	52.77122868521618
1142	-->	16.67083092313409	18	18.74514635581157
rate Hardy-Littlewood				
1144	-->	16.69172896554746	24	22.708727966271063
1146	-->	16.712618691485154	38	37.712751155287634
1148	-->	16.733500120108875	26	23.11329590976491
1150	-->	16.754373270502338	27	26.26306206475587
1152	-->	16.775238161671812	36	37.648734798662865
rate Hardy-Littlewood				
1154	-->	16.79609481254652	19	18.879537459462018
1156	-->	16.81694324197909	22	20.12708710947906
1158	-->	16.837783468746014	42	37.98085387180855
1160	-->	16.85861551154806	29	26.15253013015934
1162	-->	16.87943938901075	25	23.00402366544033

1164	-->	16.900255119684747	43	38.316298649412744
1166	-->	16.92106272204631	24	21.503441326775242
1168	-->	16.94186221449773	22	19.27090135832169
1170	-->	16.962653615367717	58	55.3471080666456
1172	-->	16.983436942911865	18	19.113334235231946
rate Hardy-Littlewood				
1174	-->	17.004212215313014	22	19.102776205432903
1176	-->	17.02497945068174	49	45.82192420573814
1178	-->	17.045738667056675	19	20.937048742265176
rate Hardy-Littlewood				
1180	-->	17.066489882404987	26	25.963679704870163
1182	-->	17.08723311462275	40	38.51507728967725
1184	-->	17.107968381535372	20	19.729584146755695
1186	-->	17.12869570089795	20	19.236279014202566
1188	-->	17.149415090395703	43	42.72449197325243
1190	-->	17.170126567644363	33	32.8503439836684
1192	-->	17.19083015019054	23	19.401558048222395
1194	-->	17.211525855512136	45	38.78121561270276
1196	-->	17.23221370101872	24	22.074143382539066
1198	-->	17.2528937040519	24	19.36945690403367
1200	-->	17.273565881885713	54	51.624662954847636
1202	-->	17.294230251727008	19	19.413778076943945
rate Hardy-Littlewood				
1204	-->	17.3148868307158	28	23.85221308808954
1206	-->	17.33553563592565	43	39.44919795849698
1208	-->	17.356176684364044	20	19.57841066273669
1210	-->	17.37680999297274	32	28.84448234296866
1212	-->	17.397435578628134	42	39.37808971307929
1214	-->	17.41805345814163	22	19.546529422829934
1216	-->	17.43866364826001	21	20.685584804018387
1218	-->	17.459266165665742	49	48.678903717006634
1220	-->	17.479861026977385	27	26.549941423696133
1222	-->	17.5004482487499	25	21.85994354456646
1224	-->	17.521027847475033	45	41.86611843455131
1226	-->	17.541599839581625	22	19.67896574376773
1228	-->	17.562164241435976	22	19.73335754529658
1230	-->	17.582721069342185	55	53.85550678502393
1232	-->	17.603270339542465	28	26.283948331073763
1234	-->	17.62381206821752	25	19.76708362896903
1236	-->	17.644346271486853	42	39.9052652192352
1238	-->	17.664872965409067	18	19.811091119363574
rate Hardy-Littlewood				
1240	-->	17.685392165982257	34	27.31178144208963
1242	-->	17.7059038891443	44	41.53398900408643
1244	-->	17.726408150773164	23	19.90925373802185
1246	-->	17.74690496668726	26	24.11444210422481
1248	-->	17.767394352645752	45	43.39414928872635
1250	-->	17.78787632434887	28	26.547932995155513
1252	-->	17.80835089743821	23	19.996998891166516
1254	-->	17.82881808749709	51	46.952596958919635
1256	-->	17.84927791005082	20	20.105675584680778
rate Hardy-Littlewood				
1258	-->	17.869730380567017	21	21.941457175249777
rate Hardy-Littlewood				
1260	-->	17.890175514455926	68	64.06606893515772
1262	-->	17.910613327070724	22	20.074424896221227
1264	-->	17.931043833707793	26	20.325044055836102
1266	-->	17.95146704960707	42	40.36494215922474
1268	-->	17.971882989952285	21	20.17208899147282
1270	-->	17.992291669871314	27	27.05490031428725
rate Hardy-Littlewood				
1272	-->	18.012693104436433	40	41.094288332927846
rate Hardy-Littlewood				
1274	-->	18.03308730866464	26	26.409431301149276

rate Hardy-Littlewood				
1276	-->	18.053474297517898	25	23.270796822276772
1278	-->	18.073854085903484	42	41.021166918132074
1280	-->	18.094226688674237	27	26.98588639357883
1282	-->	18.11459212062884	26	20.292954013639555
1284	-->	18.134950396512114	46	40.9524833310925
1286	-->	18.15530153101531	22	20.336561603458815
1288	-->	18.17564553877636	29	25.55355529943564
1290	-->	18.195982434380177	60	55.58612063303121
1292	-->	18.216312232358902	23	23.006435410707038
rate Hardy-Littlewood				
1294	-->	18.23663494719221	26	20.42367962834966
1296	-->	18.25695059330756	49	40.827677242895106
1298	-->	18.277259185080467	20	23.10458283028943
rate Hardy-Littlewood				
1300	-->	18.297560736834765	33	29.756165313341768
1302	-->	18.317855262842905	53	50.84469712830577
1304	-->	18.338142777326155	24	20.62819109242583
1306	-->	18.35842329445493	24	20.554115761842155
1308	-->	18.378696828349003	46	41.472640999415724
1310	-->	18.398963393077796	30	27.63395025993056
1312	-->	18.419223002660605	23	21.115637580226057
1314	-->	18.43947567106689	46	41.7994464551979
1316	-->	18.4597214122165	27	25.307536682152193
1318	-->	18.479960239979945	26	20.684265932759732
1320	-->	18.500192168178625	66	61.25780693681639
1322	-->	18.52041721058511	21	20.727586373210933
1324	-->	18.540635380923337	26	20.780816359164
1326	-->	18.560846692868914	53	48.26647180599251
1328	-->	18.581051160049327	22	21.017457661582693
1330	-->	18.60124879604417	41	35.208486209228774
1332	-->	18.621439614385444	47	42.79766196005015
1334	-->	18.641623628557724	25	22.62582476260797
1336	-->	18.661800851998436	25	20.97400918403443
1338	-->	18.68197129809809	45	41.92739910803361
1340	-->	18.702134980200515	27	28.28302331530274
rate Hardy-Littlewood				
1342	-->	18.722291911603076	27	23.629901473878967
1344	-->	18.742442105556933	54	50.24171620942072
1346	-->	18.762585575267227	25	20.986856799769896
1348	-->	18.782722333893364	22	21.03981512949262
1350	-->	18.802852394549188	60	55.99669135371897
1352	-->	18.82297577030325	22	22.93125190892497
rate Hardy-Littlewood				
1354	-->	18.843092474179	21	21.07303475203329
rate Hardy-Littlewood				
1356	-->	18.86320251915502	41	42.50632353416748
rate Hardy-Littlewood				
1358	-->	18.88330591816526	24	25.56825629443196
rate Hardy-Littlewood				
1360	-->	18.90340268409924	33	30.01807386236882
1362	-->	18.92349282980226	44	42.443754692277956
1364	-->	18.943576368075643	27	24.309752574044712
1366	-->	18.96365331167694	27	21.20207480169182
1368	-->	18.983723673320124	48	44.87819543322178
1370	-->	19.00378746567583	28	28.49481152363497
rate Hardy-Littlewood				
1372	-->	19.023844701371566	27	25.48253713635209
1374	-->	19.043895392991885	47	42.70112487176224
1376	-->	19.063939553078647	23	21.79736914577304
1378	-->	19.08397719413119	27	23.691802056361848
1380	-->	19.104008328606547	61	59.56424138321772
1382	-->	19.124032968919643	20	21.373709604696185
rate Hardy-Littlewood				

1384	-->	19.14405112744352	24	21.489104734385393
1386	-->	19.16406281650952	59	57.02825482359415
1388	-->	19.184068048407486	20	21.469064988586453
rate Hardy-Littlewood				
1390	-->	19.204066835385966	30	28.77978707497356
1392	-->	19.224059189652415	44	44.48854423863574
rate Hardy-Littlewood				
1394	-->	19.244045123373397	24	23.48989473914068
1396	-->	19.264024648674752	24	21.554561069763682
1398	-->	19.283997777641826	45	43.21428073330565
1400	-->	19.303964522319653	34	34.45661171043516
rate Hardy-Littlewood				
1402	-->	19.323924894713137	27	21.5875906391778
1404	-->	19.343878906787246	48	47.079518988198224
1406	-->	19.36382657046721	23	23.523453429745985
rate Hardy-Littlewood				
1408	-->	19.38376789763872	25	24.023127152990174
1410	-->	19.403702900148076	58	58.994909737836345
rate Hardy-Littlewood				
1412	-->	19.423631589802422	18	21.72520646925133
rate denise				
rate Hardy-Littlewood				
1414	-->	19.443553978369895	30	26.28462143849382
1416	-->	19.463470077579817	47	44.173880760265405
1418	-->	19.4833798991229	20	21.75817415999547
rate Hardy-Littlewood				
1420	-->	19.503283454651402	34	29.418594079366365
1422	-->	19.52318075577932	41	44.10554219230219
rate Hardy-Littlewood				
1424	-->	19.543071814082555	22	22.041808154608013
rate Hardy-Littlewood				
1426	-->	19.56295664109912	23	23.639288006669457
rate Hardy-Littlewood				
1428	-->	19.58283524832929	57	55.894761840213015
1430	-->	19.602707647235782	35	35.321470467588924
rate Hardy-Littlewood				
1432	-->	19.622573849243945	25	22.00001688923399
1434	-->	19.642433865741932	50	43.98014184733959
1436	-->	19.662287708080854	22	21.98032054518482
1438	-->	19.682135387574967	23	21.97076325280966
1440	-->	19.70197691550185	60	58.56372423296038
1442	-->	19.721812303102556	27	26.64032711538935
1444	-->	19.741641561581798	28	23.298185805124888
1446	-->	19.761464702108103	45	44.23441898633007
1448	-->	19.781281735814	20	22.169423253140355
rate Hardy-Littlewood				
1450	-->	19.801092673796155	36	30.513028585033624
1452	-->	19.82089752711557	49	49.08588803065808
rate Hardy-Littlewood				
1454	-->	19.840696306797714	26	22.140330448328456
1456	-->	19.860489023832717	34	28.97150625237683
1458	-->	19.880275689175512	48	44.30436482384103
1460	-->	19.900056313746006	33	29.980862483883833
1462	-->	19.919830908429223	29	24.251554643388978
1464	-->	19.93959948407549	47	45.18437936679948
1466	-->	19.959362051500584	25	22.26721608425377
1468	-->	19.97911862148587	24	22.31891338796778
1470	-->	19.998869204778487	73	71.29299930077678
1472	-->	20.018613812091495	22	23.362098567321073
rate Hardy-Littlewood				
1474	-->	20.038352454104007	30	25.18300615075887
1476	-->	20.058085141461383	51	45.830584665802654
1478	-->	20.07781188477535	26	22.393856341756575
1480	-->	20.09753269462416	34	30.698890880532957

1482	-->	20.11724758155276	52	51.76075398692033
1484	-->	20.13695655607291	29	27.439823498411723
1486	-->	20.156659628663366	25	22.478148161555815
1488	-->	20.176356809770006	52	46.487426446676004
1490	-->	20.19604810980597	31	30.190637052864666
1492	-->	20.21573353915186	27	22.571716572490775
1494	-->	20.235413108155797	50	45.62052476329674
1496	-->	20.255086827133653	28	26.729635927390557
1498	-->	20.274754706369134	32	27.346989084169877
1500	-->	20.294416756113954	67	60.25385086277896
1502	-->	20.31407298658798	27	22.646411208295945
1504	-->	20.333723407979345	27	23.140280872947873
1506	-->	20.353368030444628	51	45.498473838239
1508	-->	20.373006864108955	25	25.65732434287804
rate Hardy-Littlewood				
1510	-->	20.392639919066163	33	30.470117510451534
1512	-->	20.412267205378942	59	54.530943503160216
1514	-->	20.431888733078935	23	22.77233093859311
1516	-->	20.451504512166935	26	22.823564401020136
1518	-->	20.471114552612967	56	53.04247457379497
1520	-->	20.490718864356445	31	32.195458685878066
rate Hardy-Littlewood				
1522	-->	20.510317457306318	27	22.856146644031448
1524	-->	20.529910341341186	48	46.05959727029728
1526	-->	20.54949752630943	28	27.698021941822475
1528	-->	20.569079022029364	27	23.010007654339166
1530	-->	20.588654838289344	69	65.1657460059711
1532	-->	20.60822498484792	22	22.990942057827723
rate Hardy-Littlewood				
1534	-->	20.627789471433942	32	25.477455926946988
1536	-->	20.64734830774672	47	45.94516905893937
1538	-->	20.66690150345613	26	23.023467443428512
1540	-->	20.686449068202734	46	40.91446576284811
1542	-->	20.705991011597927	46	46.25122606131554
rate Hardy-Littlewood				
1544	-->	20.725527343224062	21	23.176876720275708
rate Hardy-Littlewood				
1546	-->	20.74505807263457	30	23.106973963827798
1548	-->	20.76458320935407	51	47.32255777580798
1550	-->	20.784102762878522	31	31.887974062054614
rate Hardy-Littlewood				
1552	-->	20.803616742675334	28	23.38321609939717
1554	-->	20.823125158183483	62	57.1733345643631
1556	-->	20.842628018813645	24	23.241241495208854
1558	-->	20.8621253339483	25	25.19693986942139
rate Hardy-Littlewood				
1560	-->	20.881617112941885	72	67.55786635956196
1562	-->	20.901103365120882	29	26.200791119346714
1564	-->	20.920584099783955	28	25.99734165317962
1566	-->	20.94005932620206	51	48.295814728805816
1568	-->	20.959529053618564	25	27.967549678977647
rate Hardy-Littlewood				
1570	-->	20.978993291249367	38	31.30345576479707
1572	-->	20.99845204828302	57	47.0577652795647
1574	-->	21.017905333880837	23	23.398450815330296
rate Hardy-Littlewood				
1576	-->	21.037353157177005	26	23.509412107997598
1578	-->	21.056795527278727	47	46.99987733900119
1580	-->	21.07623245326627	31	31.647086764419228
rate Hardy-Littlewood				
1582	-->	21.095663944193177	34	28.3956710371206
1584	-->	21.115090009086284	58	52.16120315809425
1586	-->	21.134510656945896	28	26.063439515940228
1588	-->	21.153925896745864	26	23.573571208148845

1590	-->	21.173335737433725	71	63.98999832426801
1592	-->	21.192740187930788	25	23.675089102060458
1594	-->	21.21213925713225	27	23.605902376760728
1596	-->	21.23153295390731	64	59.96406335123028
1598	-->	21.250921287099278	24	25.7520249401874
rate Hardy-Littlewood				
1600	-->	21.27030426552568	36	31.517861810017116
1602	-->	21.28968189797836	53	47.86208878687329
1604	-->	21.309054193223606	23	23.739146842712206
rate Hardy-Littlewood				
1606	-->	21.328421160002236	30	26.704778786418014
1608	-->	21.34778280702971	47	48.17223699714387
rate Hardy-Littlewood				
1610	-->	21.36713914299624	42	39.79587525151134
1612	-->	21.386490176566898	35	26.816649899159504
1614	-->	21.40583591638169	53	47.744550209363005
1616	-->	21.425176371055716	27	24.044304487811875
1618	-->	21.444511549179214	32	23.85403974961416
1620	-->	21.463841459317702	65	63.587113071828796
1622	-->	21.483166110012057	24	23.895311773901753
1624	-->	21.50248550977864	35	29.725359246079964
1626	-->	21.521799667109374	55	47.991910671772885
1628	-->	21.541108590471847	29	27.345951426206298
1630	-->	21.560412288309422	40	32.12943332329421
1632	-->	21.57971076904134	60	51.13374248758052
1634	-->	21.599004041062802	27	26.02022930390083
1636	-->	21.618292112745085	27	24.069145354253415
1638	-->	21.6375749924356	67	62.91686946756671
1640	-->	21.65685268845807	35	32.890720348067966
1642	-->	21.676125209112527	27	24.10131570756236
1644	-->	21.69539256267549	52	48.541931120799596
1646	-->	21.71465475740001	26	24.142445793631182
1648	-->	21.73391180151579	28	24.37258935289208
1650	-->	21.753163703229283	76	71.56801042452688
1652	-->	21.77241047072374	28	29.518652838941698
rate Hardy-Littlewood				
1654	-->	21.791652112159387	31	24.22463587087795
1656	-->	21.81088863567342	55	50.737975262307934
1658	-->	21.83012004938019	27	24.26569601157586
1660	-->	21.84934636137124	39	32.741853011613486
1662	-->	21.868567579715386	54	48.73145878748491
1664	-->	21.887783712458866	28	26.506874343745874
1666	-->	21.906994767625378	34	31.127657918643912
1668	-->	21.926200753216186	53	49.03329689809853
1670	-->	21.94540167721022	37	32.676170587102746
1672	-->	21.964597547564154	35	28.682343468057994
1674	-->	21.983788372212505	56	50.48375898716066
1676	-->	22.0029741590677	28	24.47953281204637
1678	-->	22.0221549160202	31	24.47065068860703
1680	-->	22.041330650938534	83	78.27815620691388
1682	-->	22.060501371669453	24	25.389147762245045
rate Hardy-Littlewood				
1684	-->	22.079667086037965	31	24.561334823515377
1686	-->	22.098827801847424	56	49.22241982298089
1688	-->	22.11798352687966	26	24.66119860810149
1690	-->	22.137134268895004	37	35.729760365317055
1692	-->	22.156280035632427	57	50.26195215082959
1694	-->	22.17542083480958	32	32.80678014680057
rate Hardy-Littlewood				
1696	-->	22.1945566741229	28	25.108367281589736
1698	-->	22.213687561247703	52	49.46729068640728
1700	-->	22.232813503838248	34	35.08103831890165
rate Hardy-Littlewood				
1702	-->	22.251934509527814	30	26.601251116217373

1704	-->	22.27105058592883	55	50.13049713694291
1706	-->	22.290161740632872	30	24.756631519618555
1708	-->	22.30926798121084	32	30.20091217312456
1710	-->	22.328369315212967	78	69.93419115885233
1712	-->	22.347465750168926	26	25.024826734123423
1714	-->	22.366557293587917	27	24.83813850586429
1716	-->	22.38564395295875	68	60.19271504239457
1718	-->	22.40472573574988	21	24.878858708666666
rate denise				
rate Hardy-Littlewood				
1720	-->	22.423802649409552	38	33.96908676963956
1722	-->	22.442874701365838	64	61.26912142810449
1724	-->	22.46194189902671	29	24.968998831838938
1726	-->	22.481004249780153	31	24.96023287476713
1728	-->	22.500061760994207	53	49.90323294993674
1730	-->	22.51911444001706	36	33.49064741521924
1732	-->	22.53816229417713	25	25.05026628408624
rate Hardy-Littlewood				
1734	-->	22.557205330783134	55	53.36021945213391
1736	-->	22.57624355712414	35	31.07534984050893
1738	-->	22.59527698046971	33	28.198444153608573
1740	-->	22.614305608069888	76	69.33917230909977
1742	-->	22.63332944715534	25	27.796255143150056
rate Hardy-Littlewood				
1744	-->	22.652348504937404	33	25.3488490340734
1746	-->	22.67136278860817	55	50.798001965489654
1748	-->	22.690372305340535	25	27.902707098536542
rate Hardy-Littlewood				
1750	-->	22.7093770622883	48	40.27998874000966
1752	-->	22.728377066586237	52	51.10026043680734
1754	-->	22.747372325350156	27	25.244353990091845
1756	-->	22.766362845676976	30	25.293547603320462
1758	-->	22.785348634644805	55	50.68569702797098
1760	-->	22.804329699312994	41	37.44638625175536
1762	-->	22.82330604672224	29	25.32533692695655
1764	-->	22.842277683894622	69	60.76032045632368
1766	-->	22.86124461783369	32	25.365796299645513
1768	-->	22.88020685552454	31	29.50663942149978
1770	-->	22.899164403933867	73	68.86056926480508
1772	-->	22.918117270010036	28	25.455306162665774
1774	-->	22.93706546068318	27	25.44665117342187
1776	-->	22.956008982865214	53	52.329888847888064
1778	-->	22.974947843449968	33	30.794414320260536
1780	-->	22.993882049313203	37	34.36186862798456
1782	-->	23.012811607312702	59	56.66386402623491
1784	-->	23.031736524288327	25	25.634397968300075
rate Hardy-Littlewood				
1786	-->	23.050656807062115	30	27.642332263125766
1788	-->	23.0695724624383	52	51.46632481447403
1790	-->	23.0884834972034	36	34.29863937137374
1792	-->	23.107389918126305	36	30.719556770224955
1794	-->	23.126291731958307	66	58.55952743491495
1796	-->	23.145188945433173	31	25.697310698634606
1798	-->	23.164081565267246	27	27.528079612425262
rate Hardy-Littlewood				
1800	-->	23.18296959815945	75	68.48066590637393
1802	-->	23.201853050791403	31	27.951275393699365
1804	-->	23.220731929827462	31	29.31114297176271
1806	-->	23.23960624191478	72	63.28435257758109
1808	-->	23.258475993683394	28	25.992864567742505
1810	-->	23.277341191746256	36	34.5665783827425
1812	-->	23.29620184269933	53	51.948366769264
1814	-->	23.31505795312161	28	25.84966442062932
1816	-->	23.333909529575244	27	25.956088192812285

1818	-->	23.35275657860553	53	52.24512840034985
1820	-->	23.37159910674103	46	45.17486614525173
1822	-->	23.3904371204936	27	25.93001829076781
1824	-->	23.40927062635847	58	54.892818368488335
1826	-->	23.42809963081428	33	29.179951357560284
1828	-->	23.44692414032318	29	26.01882195966847
1830	-->	23.465744161330843	76	70.4592073522882
1832	-->	23.484559700266562	25	26.116442987693613
rate Hardy-Littlewood				
1834	-->	23.50337076354331	34	31.468412594866173
1836	-->	23.52217735755775	62	55.55628985526481
1838	-->	23.540979488690372	28	26.09048109829574
1840	-->	23.55977716330548	37	36.43214562176078
1842	-->	23.578570387751288	54	52.37544829175807
1844	-->	23.597359168359983	32	26.179088452274097
1846	-->	23.61614351144776	28	28.932086119353208
rate Hardy-Littlewood				
1848	-->	23.634923423314884	70	69.76594758197412
1850	-->	23.65369891024578	38	35.90708471056192
1852	-->	23.672469978509035	28	26.259101049312292
1854	-->	23.6912366343575	54	52.96379701356123
1856	-->	23.709998884028323	32	27.214212068318986
1858	-->	23.728756733743033	29	26.290605185492282
1860	-->	23.747510189707555	76	72.50281010984385
1862	-->	23.76625925811229	34	33.41933900301701
1864	-->	23.78500394513218	32	26.436190547815702
1866	-->	23.80374425692673	53	52.85494056380013
1868	-->	23.82248019964012	28	26.418887228193253
1870	-->	23.84121177940119	43	41.69033218498686
1872	-->	23.85993900232355	58	57.604641558085966
1874	-->	23.8786618745056	30	26.450345395106062
1876	-->	23.897380402030603	36	32.218609515463626
1878	-->	23.916094590966733	61	53.094153295411964
1880	-->	23.934804447367135	38	36.09389545275217
1882	-->	23.953509977269963	33	26.53009705250804
1884	-->	23.972211186698445	61	53.38583290641269
1886	-->	23.990908081660937	30	28.518594712267006
1888	-->	24.00960066815096	28	27.027656319565306
1890	-->	24.028288952147275	91	85.06106246443021
1892	-->	24.046972939613937	35	30.278126565125667
1894	-->	24.065652636500303	32	26.649577724867097
1896	-->	24.08432804874113	63	53.97460626410053
1898	-->	24.10299918225662	33	29.494606230229937
1900	-->	24.12166604295245	36	37.66744625784228
rate Hardy-Littlewood				
1902	-->	24.140328636719843	55	53.57152682192505
1904	-->	24.15898696943561	36	34.202731602119435
1906	-->	24.177641046962187	30	26.7688835296791
1908	-->	24.196290875147714	58	54.570718932054255
1910	-->	24.21493645982607	36	35.89627744469372
1912	-->	24.23357780681694	30	26.913460438008382
1914	-->	24.2522149219258	66	61.8079611421094
1916	-->	24.270847810944062	28	26.896365635047033
1918	-->	24.289476479649053	35	32.47069401979262
1920	-->	24.3081009338041	81	71.67945684430364
1922	-->	24.32672117915854	30	27.827212502457016
1924	-->	24.345337221447824	34	30.2057501548236
1926	-->	24.36394906639351	58	54.39174829982966
1928	-->	24.38255671970336	30	27.071937162056496
1930	-->	24.40116018707133	39	36.16028252613091
1932	-->	24.419759474177695	68	67.88264536684224
1934	-->	24.43835458668901	28	27.04659182150783
1936	-->	24.456945530258228	33	30.042669348247074
1938	-->	24.475532310524706	65	61.11971422026521

1940	-->	24.49411493311427	41	36.48405085538967
1942	-->	24.51269340363925	30	27.12576616116562
1944	-->	24.53126772769854	58	54.2351834026797
1946	-->	24.549837910877624	34	32.80255234667116
1948	-->	24.568403958748657	31	27.213152226510417
1950	-->	24.58696587687046	83	79.06017232332216
1952	-->	24.605523670788624	29	27.657666813291577
1954	-->	24.624077346035488	35	27.244386814017332
1956	-->	24.64262690813025	53	54.81080750406015
rate Hardy-Littlewood				
1958	-->	24.661172362578977	27	30.632532555823673
rate Hardy-Littlewood				
1960	-->	24.67971371487464	48	43.64119170683363
1962	-->	24.698250970497202	56	55.1011820163338
1964	-->	24.71678413491361	26	27.37109580044576
rate Hardy-Littlewood				
1966	-->	24.735313213577868	29	27.36283965582405
1968	-->	24.75383821193109	62	56.11222452658399
1970	-->	24.772359135401512	38	36.686427687006955
1972	-->	24.790875989404572	32	30.302680147967084
1974	-->	24.809388779342907	71	67.2553961544739
1976	-->	24.827897510606466	33	31.688008579229738
1978	-->	24.846402188572466	32	29.4620899962657
1980	-->	24.864902818605508	82	81.40153376878263
1982	-->	24.88339940605758	30	27.52051807147071
1984	-->	24.901891956268127	32	28.461120934373806
1986	-->	24.920380474564045	58	55.23158776308875
1988	-->	24.9388649662598	30	33.54131910685032
rate Hardy-Littlewood				
1990	-->	24.95734543665738	42	36.94858427769503
1992	-->	24.975821891046404	59	55.86358422091935
1994	-->	24.99429433470415	27	27.638584575876063
rate Hardy-Littlewood				
1996	-->	25.012762772895556	28	27.686099513862775
1998	-->	25.031227210873332	56	56.880350405608496
rate Hardy-Littlewood				
2000	-->	25.04968765387792	37	36.893108263450856
2002	-->	25.068144107137613	44	40.27561822125765
2004	-->	25.08659657586854	59	55.75414701678025
2006	-->	25.105045065274716	35	30.09627365835133
2008	-->	25.123489580548124	28	27.85986885894394
2010	-->	25.141930126868683	84	75.18738316125845
2012	-->	25.160366709404354	27	27.84316587772438
rate Hardy-Littlewood				
2014	-->	25.17879933331115	35	30.020370823535796
2016	-->	25.197228003733155	73	66.78469305387372
2018	-->	25.215652725802627	28	27.874228731775755
2020	-->	25.23407350463996	41	37.5302242915207
2022	-->	25.25249034535378	59	55.93808815140718
2024	-->	25.270903253040956	32	32.482487531375064
rate Hardy-Littlewood				
2026	-->	25.289312232786664	32	27.952633330770546
2028	-->	25.307717289664378	62	60.970058411133266
2030	-->	25.326118428735963	49	46.399863766398056
2032	-->	25.344515655051673	29	28.20766301107696
2034	-->	25.36290897365022	64	56.511319941431665
2036	-->	25.38129838955879	33	28.078229588533897
2038	-->	25.39968390779308	33	28.07010702639819
2040	-->	25.41806553357357	85	79.82109750385384
2042	-->	25.43644327124447	30	28.10922958841477
2044	-->	25.454817126435902	38	34.1964312825876
2046	-->	25.473187103901807	75	64.64549921057453
2048	-->	25.49155320860104	25	28.14034587541526
rate denise				

rate Hardy-Littlewood

2050	-->	25.509915445481205	42	38.50925839619159
2052	-->	25.52827381947866	65	59.67410853741089
2054	-->	25.54662833551862	34	31.16203770657322
2056	-->	25.564978998515105	32	28.32917773766282
2058	-->	25.583325813371047	75	67.77131688576473
2060	-->	25.60166878497831	45	38.049805514120216
2062	-->	25.620007918217684	33	28.30457942132337
2064	-->	25.63834321795899	58	57.97355880421091
2066	-->	25.656674689061056	34	28.343597107250254
2068	-->	25.67500233637178	35	32.18369264051533
2070	-->	25.693326164728163	82	79.21438213249509
2072	-->	25.71164617895635	36	35.022424569554865
2074	-->	25.72996238387163	33	30.800430206352758
2076	-->	25.748274784278532	58	57.15960194331628
2078	-->	25.766583384970797	27	28.460546404037068

rate Hardy-Littlewood

2080	-->	25.784888190731458	48	41.38561728772947
2082	-->	25.803189206332856	59	57.10923900781465
2084	-->	25.821486436536667	30	28.546464267693505
2086	-->	25.839779886093936	39	34.44598930887332
2088	-->	25.858069559745164	62	59.17438154736411
2090	-->	25.87635546222023	46	44.784263605502744
2092	-->	25.894637598238543	34	28.62426218375011
2094	-->	25.91291597250901	62	57.342538501705306
2096	-->	25.931190589730075	32	28.830100397967346
2098	-->	25.949461454589773	32	28.65511865468428
2100	-->	25.96772857176574	97	91.67109542206636
2102	-->	25.985991945925267	31	28.693982007725012
2104	-->	26.004251581725324	35	28.795995629071825
2106	-->	26.022507483812582	71	62.630216408103806
2108	-->	26.040759656823457	32	31.69648576645718
2110	-->	26.059008105384148	41	38.50919092702573
2112	-->	26.077252834110652	67	63.91950287343503
2114	-->	26.095493847608818	34	34.77163650847835

rate Hardy-Littlewood

2116	-->	26.113731150474354	37	30.174147659041083
2118	-->	26.131964747292884	63	57.808225474111666
2120	-->	26.150194642639967	37	39.209220629676636

rate Hardy-Littlewood

2122	-->	26.168420841081115	33	28.888045631012716
2124	-->	26.186643347171845	67	58.77370668626562
2126	-->	26.204862165457726	31	28.92680802161372
2128	-->	26.22307730047435	42	36.744080578494845
2130	-->	26.241288756747444	82	78.28727082767438
2132	-->	26.25949653879282	33	32.40022876233765
2134	-->	26.27770065111647	35	32.53566235100327
2136	-->	26.295901098214557	66	58.65946472013769
2138	-->	26.31409788457348	29	29.042995273858395

rate Hardy-Littlewood

2140	-->	26.332291014669856	47	39.08224552281617
2142	-->	26.3504804929706	81	74.37955081698567
2144	-->	26.36866632393292	32	29.52115128780524
2146	-->	26.386848512004388	36	31.0327531325848
2148	-->	26.405027061622906	63	58.554049088031206
2150	-->	26.4232019772168	43	39.7898897549356
2152	-->	26.44137326320481	32	29.260396729298392
2154	-->	26.459540923996137	64	58.50450962760601
2156	-->	26.477704963990476	43	38.919825275520765
2158	-->	26.495865387578018	37	32.257959795385986
2160	-->	26.51402219913952	79	77.94268094622751
2162	-->	26.5321754030463	34	31.32147219067877
2164	-->	26.55032500366028	38	29.321424313148977
2166	-->	26.568471005334015	67	62.01832079385924

2168	-->	26.586613412410728	31	29.41467230057522
2170	-->	26.60475222922432	52	48.53797208673788
2172	-->	26.622887460099435	65	59.01650239061241
2174	-->	26.64101910935141	31	29.390667296455398
2176	-->	26.659147181286425	35	31.341746782630207
2178	-->	26.67271680201407	68	65.33814910404034
2180	-->	26.695392610384143	41	39.59521238506729
2182	-->	26.713509976113283	34	29.46774856325811
2184	-->	26.73162378165834	85	77.13158737217297
2186	-->	26.74973403127977	34	29.50626499950939
2188	-->	26.76784072922895	31	29.552629598659987
2190	-->	26.78594387974823	82	79.82267269095209
2192	-->	26.80404348707099	33	29.75580309121193
2194	-->	26.822139555421582	34	29.583249672140024
2196	-->	26.84023208901545	62	60.15356111346482
2198	-->	26.858321092059104	34	35.74280868919464
rate Hardy-Littlewood				
2200	-->	26.876406568750163	46	43.87255602985981
2202	-->	26.894488523277367	60	59.428786823233914
2204	-->	26.91256695982065	32	32.55953512879125
rate Hardy-Littlewood				
2206	-->	26.930641882551097	35	29.69860675974396
2208	-->	26.948713295631023	60	62.20945508936992
rate Hardy-Littlewood				
2210	-->	26.966781203213984	47	46.095657244245494
2212	-->	26.984845609444797	38	36.138477294163565
2214	-->	27.002906518459575	68	61.022585137501885
2216	-->	27.020963934385755	34	29.875959876221213
2218	-->	27.039017861342117	29	29.81382085829219
rate Hardy-Littlewood				
2220	-->	27.05706830343881	90	81.75389775933719
2222	-->	27.07511526477737	35	33.47396194226958
2224	-->	27.093158749450787	33	30.06233065560504
2226	-->	27.11119876154346	78	73.0781604325483
2228	-->	27.129235305131292	28	29.93669402240376
rate Hardy-Littlewood				
2230	-->	27.147268384281674	41	40.04977349887449
2232	-->	27.16529800305353	67	61.905928341845204
2234	-->	27.183324165497318	32	29.967218988703074
2236	-->	27.20134687565509	36	33.48027374217944
2238	-->	27.219366137560495	58	60.11899176817073
rate Hardy-Littlewood				
2240	-->	27.237381955238792	51	47.99655519866851
2242	-->	27.255394332706917	35	32.34029646949136
2244	-->	27.273403273973464	77	71.19679460194708
2246	-->	27.291408783038726	33	30.082103387703388
2248	-->	27.309410863894733	33	30.182226543634727
2250	-->	27.327409520525254	86	80.24951900771941
2252	-->	27.345404756905836	26	30.166379331435376
rate denise				
rate Hardy-Littlewood				
2254	-->	27.363396577003833	44	37.88001674025075
2256	-->	27.3813849847784	70	61.64195576985702
2258	-->	27.39936998418056	32	30.196848145764918
2260	-->	27.41735157915319	44	40.61489336812233
2262	-->	27.43532977363108	75	68.35011293378354
2264	-->	27.453304571540908	31	30.334989421957445
2266	-->	27.471275976801348	38	33.93999436147633
2268	-->	27.489243993322987	75	72.63750334522149
2270	-->	27.507208625008424	41	40.55909778504533
2272	-->	27.525169875752265	33	30.74300467976925
2274	-->	27.54312774944115	61	60.80668305156032
2276	-->	27.56108224995381	32	30.395509308144415
2278	-->	27.579033381161018	36	32.88338397006876

2280	-->	27.59698114692567	92	85.77926963601341
2282	-->	27.61492555110279	38	36.70565801344969
2284	-->	27.632866597539564	33	30.47176389459716
2286	-->	27.65080429007534	68	61.36174252789541
2288	-->	27.668738632541665	37	36.916892258909584
2290	-->	27.686669628762317	47	40.812999246516334
2292	-->	27.70459728255331	68	61.31179846194041
2294	-->	27.72252159772292	32	32.46767807021628
rate Hardy-Littlewood				
2296	-->	27.740442578071733	40	37.57865050165389
2298	-->	27.7583602273926	63	61.26377324166257
2300	-->	27.776274549470767	49	42.701985427570605
2302	-->	27.79418554808379	32	30.616399887864542
2304	-->	27.812093227001604	68	61.21762106441344
2306	-->	27.82999758998658	34	30.654450139823926
2308	-->	27.84789864079346	34	30.70016535955071
2310	-->	27.865796383169474	114	109.03427128298938
2312	-->	27.883690820854287	35	32.73056788193662
2314	-->	27.901581957580063	40	33.88019005634175
2316	-->	27.91946979707149	66	61.76757280906603
2318	-->	27.93735434304574	38	33.1019900171881
2320	-->	27.955235599212585	48	42.533651486404935
2322	-->	27.973113569274354	67	63.061349304715115
2324	-->	27.990988256925956	38	37.415009209663175
2326	-->	28.00885966585493	35	30.844477296774745
2328	-->	28.02672779974145	64	62.323041897847034
2330	-->	28.044592662258346	43	41.31930959339279
2332	-->	28.062454257071128	35	34.97808685593433
2334	-->	28.080312587837994	68	61.947389963311636
2336	-->	28.09816765820988	35	31.348231951431853
2338	-->	28.11601947183047	38	37.34313076311942
2340	-->	28.13386803233617	94	90.03862316282625
2342	-->	28.151713343356203	34	30.99623212775038
2344	-->	28.16955540851259	36	31.095189226578878
2346	-->	28.18739423142018	76	69.29964667901767
2348	-->	28.20522981568663	31	31.07964322889137
rate Hardy-Littlewood				
2350	-->	28.22306216491251	45	42.31394096858773
2352	-->	28.240891282691255	83	74.554797774917
2354	-->	28.258717172609188	41	34.86608081607411
2356	-->	28.276539838245576	37	34.06751257244192
2358	-->	28.294359283172632	62	62.7251225733868
rate Hardy-Littlewood				
2360	-->	28.312175510955527	45	42.24874770582963
2362	-->	28.329988525152405	33	31.185595545826217
2364	-->	28.347798329314433	66	62.67595477264552
2366	-->	28.365604926985792	44	40.83972059089603
2368	-->	28.383408321703712	37	32.10780774180869
2370	-->	28.401208516998487	92	84.37462185935598
2372	-->	28.419005516393483	33	31.306626954618686
2374	-->	28.43679932340517	38	31.299039104393245
2376	-->	28.454589941543155	76	69.53677692231415
2378	-->	28.472377374310177	32	33.30265961038655
rate Hardy-Littlewood				
2380	-->	28.49016162520212	60	53.46874138323751
2382	-->	28.50794269770807	67	62.85518675902046
2384	-->	28.52572059531029	35	31.580499038692768
2386	-->	28.543495321484283	38	31.412352858634783
2388	-->	28.561266879698767	67	63.12859036347019
2390	-->	28.579035273415737	44	42.07512664648463
2392	-->	28.596800506090435	41	35.93443139340034
2394	-->	28.614562581171416	84	79.94921351964666
2396	-->	28.63232150210053	37	31.53309200231793
2398	-->	28.65007727231298	37	35.326230872474575

2400	-->	28.667829895237293	90	84.04821442948943
2402	-->	28.68557937429538	37	31.563237430322573
2404	-->	28.70332571290253	36	31.608466273207892
2406	-->	28.72106891446743	72	63.307534247277715
2408	-->	28.73880898239219	39	38.836858751851565
2410	-->	28.756545920072377	50	42.32611411450051
2412	-->	28.774279730897	69	64.23557234918424
2414	-->	28.792010418248537	37	34.24926030331844
2416	-->	28.809737985502977	35	31.881357969001858
2418	-->	28.827462436029823	78	71.52069566281895
2420	-->	28.845183773192094	48	46.97253924730031
2422	-->	28.86290200034635	41	38.292973056691366
2424	-->	28.880617120842736	72	64.12949153471854
2426	-->	28.898329138024973	32	31.789138856217292
2428	-->	28.916038055230388	35	31.834250332716117
2430	-->	28.933743875789915	94	84.80139581757103
2432	-->	28.951446603028128	36	33.691049780716725
2434	-->	28.969146240263267	38	31.864326870398088
2436	-->	28.98684279080721	86	79.28832680371816
2438	-->	29.00453625796557	31	34.04837519003952
rate Hardy-Littlewood				
2440	-->	29.022226645037613	50	43.24677325582266
2442	-->	29.03991395531637	75	72.9446381152224
2444	-->	29.05759819208859	37	35.609084637667465
2446	-->	29.075279358634784	40	31.977004295668582
2448	-->	29.092957458229236	73	68.20183467011508
2450	-->	29.110632494140024	56	51.181407998425385
2452	-->	29.128304469629025	36	32.05953138551891
2454	-->	29.145973387951955	71	64.20919467562524
2456	-->	29.163639252358347	30	32.14973369872676
rate Hardy-Littlewood				
2458	-->	29.181302066091614	39	32.08955692587056
2460	-->	29.19896183238903	93	87.7461280518834
2462	-->	29.216618554481766	35	32.12704687586344
2464	-->	29.234272235594904	52	42.8262308510853
2466	-->	29.251922878947443	69	64.75295569608629
2468	-->	29.269570487752315	32	32.20944250308301
rate Hardy-Littlewood				
2470	-->	29.28721506521644	57	49.5543117953085
2472	-->	29.30485661454066	71	65.02676131712455
2474	-->	29.32249513891986	39	32.23943435817287
2476	-->	29.340130641542885	37	32.284315893720624
2478	-->	29.357763125592633	87	78.75984282654183
2480	-->	29.375392594246033	46	44.509677383990564
2482	-->	29.39301905067405	39	34.92586123185768
2484	-->	29.410642498041735	76	67.69073700781317
2486	-->	29.42826293950823	38	36.24096990537496
2488	-->	29.445880378226754	40	32.44902989760931
2490	-->	29.463494817344667	94	87.3669357251481
2492	-->	29.48110626000345	42	39.30475085606853
2494	-->	29.49871470933874	41	34.41998977699763
2496	-->	29.516320168480323	75	70.73267076799817
2498	-->	29.533922640552188	33	32.463841288091885
2500	-->	29.551522128672495	47	43.27535072309292
2502	-->	29.569118635953632	68	65.42447865490134
2504	-->	29.5867121655022	32	32.5983537190951
rate Hardy-Littlewood				
2506	-->	29.604302720419053	46	39.23547942111535
2508	-->	29.62189030379929	74	76.54404027903198
rate Hardy-Littlewood				
2510	-->	29.6394749187323	45	43.57414287402081
2512	-->	29.657056568301737	34	32.77866864879131
2514	-->	29.674635255585574	72	65.33071332320303
2516	-->	29.6922109836561	38	35.773294543546804

2518	-->	29.709783755579913	37	32.650475896366345
2520	-->	29.727353574417993	112	104.45815193702516
2522	-->	29.74492044322567	35	36.00614032311745
rate Hardy-Littlewood				
2524	-->	29.76248436505263	41	32.73242040229087
2526	-->	29.780045342942984	68	65.55429170330433
2528	-->	29.79760337993523	34	33.142648295116494
2530	-->	29.815158479062283	55	50.807780480704565
2532	-->	29.83271064335153	70	65.82346027506317
2534	-->	29.85025987582475	41	39.54807371958831
2536	-->	29.867806179498242	36	32.8963618139103
2538	-->	29.88534955738275	70	67.08002200498422
2540	-->	29.902890012483528	43	44.12284523870508
rate Hardy-Littlewood				
2542	-->	29.920427547800344	38	34.8521084958747
2544	-->	29.93796216632747	77	67.02233764382218
2546	-->	29.95549387105374	36	35.35545086327748
2548	-->	29.973022664962517	48	43.07424270158339
2550	-->	29.990548551031747	99	93.64632610982558
2552	-->	30.008071532233945	43	37.956862638146944
2554	-->	30.025591611536218	41	32.98557968214883
2556	-->	30.043108791900305	71	66.91253371195242
2558	-->	30.06062307628254	31	33.022747576644456
rate Hardy-Littlewood				
2560	-->	30.078134467633912	48	44.02065720142615
2562	-->	30.095642968900048	82	80.62553739673811
2564	-->	30.113148583021243	34	33.10437812217496
2566	-->	30.130651312932475	37	33.09704417547541
2568	-->	30.148151161563423	64	66.80988009645733
rate Hardy-Littlewood				
2570	-->	30.16564813183845	44	44.31760565079446
rate Hardy-Littlewood				
2572	-->	30.183142226676637	39	33.178612729063595
2574	-->	30.200633448991827	86	80.35271403668841
2576	-->	30.218121801692597	43	41.69195257634497
2578	-->	30.235607287682267	36	33.208391499694606
2580	-->	30.253089909858947	95	90.69585374894947
2582	-->	30.27056967111554	36	33.24548136104919
2584	-->	30.28804657433974	43	37.53967664008667
2586	-->	30.305520622414058	73	66.66863897785649
2588	-->	30.322991818215836	33	33.32692671506709
rate Hardy-Littlewood				
2590	-->	30.340460164617237	60	54.792202505622996
2592	-->	30.357925664485307	68	66.62481166833318
2594	-->	30.375388320681957	35	33.35667357418401
2596	-->	30.392848136063954	45	37.705044475325245
2598	-->	30.410305113482977	71	66.89080961987392
2600	-->	30.42775925578561	49	48.56218883377454
2602	-->	30.44521056581336	36	33.43073750210216
2604	-->	30.46265904640265	91	82.98256984265625
2606	-->	30.48010470038488	35	33.467750279798295
2608	-->	30.49754753058637	36	33.66838205312964
2610	-->	30.514987539828457	98	92.5840574100756
2612	-->	30.532424730927406	39	33.54901276643528
2614	-->	30.54985910669454	37	33.54173759171696
2616	-->	30.567290669936146	72	67.69591235241461
2618	-->	30.584719423453556	45	47.71987965011004
rate Hardy-Littlewood				
2620	-->	30.60214537004313	48	45.10903041839288
2622	-->	30.619568512496276	77	74.51902102137689
2624	-->	30.636988853599473	38	34.47025123060463
2626	-->	30.654406396134252	35	37.05451622034772
rate Hardy-Littlewood				
2628	-->	30.67182114287726	69	68.23865677584566

2630	-->	30.689233096600198	46	45.05720208583367
2632	-->	30.706642260069927	45	41.317065145606655
2634	-->	30.72404863604841	76	67.55594922908776
2636	-->	30.74145222729272	34	33.77064185117723
2638	-->	30.758853036555116	34	33.76339541990849
2640	-->	30.776251066582997	107	100.01847324725266
2642	-->	30.79364632011894	29	33.80029430824593
rate denise				
rate Hardy-Littlewood				
2644	-->	30.8110387999007	40	33.84441761114054
2646	-->	30.828428508661236	81	81.14780453181783
rate Hardy-Littlewood				
2648	-->	30.845815449128708	31	33.932855957254546
rate Hardy-Littlewood				
2650	-->	30.863199624026507	54	46.01622050666657
2652	-->	30.880581036073234	80	78.81753026887996
2654	-->	30.897959687982766	35	33.910915903649524
2656	-->	30.915335582464213	41	34.32233856905028
2658	-->	30.93270872222195	70	67.9982456896143
2660	-->	30.95007910995566	58	57.499415029642044
2662	-->	30.967446748360288	44	37.73227665788542
2664	-->	30.984811640126093	72	69.89650549736746
2666	-->	31.002173787938656	37	36.02591555378858
2668	-->	31.019533194478875	42	36.9538036677594
2670	-->	31.036889862422978	97	91.79703131959346
2672	-->	31.05424379444259	28	34.25748315533601
rate denise				
rate Hardy-Littlewood				
2674	-->	31.071594993204638	48	41.09973388231867
2676	-->	31.088943461371457	77	68.48432118469765
2678	-->	31.106289201600752	36	37.575272943121675
rate Hardy-Littlewood				
2680	-->	31.123632216545634	46	46.199604859252354
rate Hardy-Littlewood				
2682	-->	31.140972508854627	74	68.75073049990965
2684	-->	31.158310081171646	42	38.600550650870474
2686	-->	31.175644936136077	41	36.932017872782474
2688	-->	31.192977076382718	88	82.07581013743498
2690	-->	31.210306504541833	48	45.79304700555442
2692	-->	31.22763322323914	38	34.286029730076855
2694	-->	31.24495723509585	75	68.66002212454099
2696	-->	31.262278542728644	38	34.374054970776896
2698	-->	31.2795971487497	42	36.83337466495247
2700	-->	31.296913055766733	100	91.48928372689814
2702	-->	31.31422626638293	44	41.40787630595185
2704	-->	31.331536783197066	43	37.467490212953116
2706	-->	31.348844608803415	87	78.32149009085623
2708	-->	31.366149745791812	37	34.43284130814994
2710	-->	31.38345219674767	52	46.03751396410848
2712	-->	31.400751964251974	73	69.45735251870865
2714	-->	31.418049050881283	39	36.70972163550916
2716	-->	31.43534345920776	52	41.78156096129853
2718	-->	31.45263519179918	78	69.40996615464628
2720	-->	31.46992425121893	51	49.055217376011036
2722	-->	31.487210640026028	42	34.5356737694256
2724	-->	31.50449436077513	79	69.36413504921552
2726	-->	31.521775416016542	39	36.62259043230903
2728	-->	31.539053808296224	47	39.73017508501883
2730	-->	31.55632954015584	128	120.72810047209622
2732	-->	31.573602614132692	35	34.65269597082872
2734	-->	31.59087303275981	42	34.64556046437898
2736	-->	31.6081407985659	82	73.35213204424812
2738	-->	31.62540591407539	37	35.647007573316706
2740	-->	31.642668381808452	51	46.57595834134251

2742	-->	31.65992820428096	79	69.53933089213876
2744	-->	31.677185384004552	50	41.65405599227872
2746	-->	31.694439923486616	42	34.755339368915955
2748	-->	31.711691825230314	75	69.8027497484471
2750	-->	31.728941091734573	56	51.50605462064178
2752	-->	31.746187725494103	38	35.633283607112865
2754	-->	31.76343172899943	86	74.2467292643351
2756	-->	31.78067310473685	43	38.731861996412405
2758	-->	31.797911855188516	46	42.022050134390476
2760	-->	31.815147982832386	109	97.3810326516481
2762	-->	31.83238149014224	38	34.90154463657524
2764	-->	31.849612379587757	37	34.94516625461652
2766	-->	31.8668406536344	72	69.9776965339008
2768	-->	31.884066314743556	36	35.13532219564532
2770	-->	31.90128936537246	55	46.76852535049223
2772	-->	31.918509807974242	101	93.24682998032836
2774	-->	31.935727644997943	40	37.5655466682904
2776	-->	31.952942878888464	39	35.10552469064211
2778	-->	31.970155512086674	68	70.19656145391052
rate Hardy-Littlewood				
2780	-->	31.98736554702934	55	47.06176632010732
2782	-->	32.00457298614917	43	38.610205606556704
2784	-->	32.02177783187482	81	72.75236508893008
2786	-->	32.0389800866309	44	42.328100149692034
2788	-->	32.05617975283797	44	38.41476961324325
2790	-->	32.07337683291259	104	96.91511601154903
2792	-->	32.090571329267284	37	35.25125254096317
2794	-->	32.10776324431057	45	39.388360709126786
2796	-->	32.12495258044698	78	70.67744346464632
2798	-->	32.14213934007706	39	35.22981735041633
2800	-->	32.15932352559736	64	56.356530919163944
2802	-->	32.17650513940047	72	70.63366147530249
2804	-->	32.19368418387503	34	35.30969478704845
rate Hardy-Littlewood				
2806	-->	32.21086066140571	44	37.583732795762394
2808	-->	32.228034574373275	90	77.00871556813622
2810	-->	32.245205925154515	51	47.25391253994842
2812	-->	32.26237471612232	45	38.47928404741906
2814	-->	32.27954094964568	97	86.14584729589323
2816	-->	32.29670462808966	40	39.29827160597689
2818	-->	32.31386575381543	39	35.41178342616746
2820	-->	32.33102432918029	104	96.51091318575173
2822	-->	32.34818035653766	43	38.251010673513605
2824	-->	32.365333838237085	41	35.54215345449739
2826	-->	32.38248477662427	76	71.37625707088158
2828	-->	32.39963317404106	41	43.00306989355861
rate Hardy-Littlewood				
2830	-->	32.41677903282543	52	47.49603094122126
2832	-->	32.4339223553116	78	72.27384562850912
2834	-->	32.45106314382989	40	39.12448704548321
2836	-->	32.46820140070686	42	35.60048389447033
2838	-->	32.48533712826525	89	80.96862572980399
2840	-->	32.50247032882399	49	48.13635230392312
2842	-->	32.51960100469825	49	44.308035956513244
2844	-->	32.53672915819941	78	72.17091424141405
2846	-->	32.55385479163507	41	35.666053124219694
2848	-->	32.57097790730909	40	36.06899203253744
2850	-->	32.58809850752159	110	100.73579263643981
2852	-->	32.60521659456891	40	38.684669756994644
2854	-->	32.6223321707437	42	35.738599044328026
2856	-->	32.639445238334844	100	91.47307819645715
2858	-->	32.656555799627554	38	35.77485501530821
2860	-->	32.673663856903296	68	57.80675748167238
2862	-->	32.69076941243986	78	72.97548870470297

2864	-->	32.70787246851134	42	36.006463408248706
2866	-->	32.72497302738816	41	35.847333083194336
2868	-->	32.74207109133705	71	71.98328544675105
rate Hardy-Littlewood				
2870	-->	32.7591666626211	64	58.844770169092456
2872	-->	32.776259743499715	41	35.97713829568417
2874	-->	32.79335033622868	76	71.94000682415565
2876	-->	32.810438443060136	42	35.96294608181939
2878	-->	32.82752406624258	40	35.95596581003322
2880	-->	32.84460720802091	107	95.86416561594046
2882	-->	32.861687870636395	37	40.273305490546285
rate Hardy-Littlewood				
2884	-->	32.87876605632668	50	43.609853093194076
2886	-->	32.89584176732587	90	80.79712078086615
2888	-->	32.91291500586442	40	38.14034389445216
2890	-->	32.92998577416924	60	51.256209586648346
2892	-->	32.947054074463665	74	72.416949374423
2894	-->	32.96411990896745	45	36.10065280737172
2896	-->	32.98118327989682	42	36.29540618777123
2898	-->	32.998244189464415	94	90.79548435855118
2900	-->	33.01530263987937	51	49.95741045641267
2902	-->	33.0323586333473	47	36.17292954123855
2904	-->	33.04941217207025	91	80.36899932027252
2906	-->	33.06646325824677	41	36.2090512875589
2908	-->	33.083511894071925	44	36.252109421675485
2910	-->	33.100558081737255	99	97.6039992141228
2912	-->	33.117601823430824	48	47.43921602229806
2914	-->	33.134643121337206	44	38.34004107464994
2916	-->	33.151681977637494	83	72.54878721046602
2918	-->	33.168718394509334	39	36.3173502841459
2920	-->	33.18575237412689	57	49.09586862582569
2922	-->	33.202783918660906	80	72.80686501828428
2924	-->	33.219813030278644	41	39.71527401260082
2926	-->	33.236839711143936	60	51.33826503080684
2928	-->	33.25386396341723	80	73.99858640485235
2930	-->	33.27088578925551	52	48.701010273630814
2932	-->	33.28790519081235	42	36.46851831404729
2934	-->	33.30492217023795	82	73.32607738325422
2936	-->	33.32193672967908	31	36.554622626877986
rate denise				
rate Hardy-Littlewood				
2938	-->	33.33894887127914	45	40.146927636871965
2940	-->	33.355958597178144	122	116.77050995242718
2942	-->	33.37296590951274	37	36.533651970054855
2944	-->	33.389970810416195	41	38.26618316973001
2946	-->	33.406973302018415	87	73.2391086651436
2948	-->	33.42397338644599	41	41.25036911517136
rate Hardy-Littlewood				
2950	-->	33.440971065822126	59	49.63013338970606
2952	-->	33.4579663422667	75	75.07452772911863
rate Hardy-Littlewood				
2954	-->	33.474959217896284	44	44.150437074649815
rate Hardy-Littlewood				
2956	-->	33.49194969482412	42	36.68453456128258
2958	-->	33.50893777516012	82	81.08870703185511
2960	-->	33.525923461010905	52	50.291396496474384
2962	-->	33.5429067544798	38	36.71360409343097
2964	-->	33.55988765766684	98	84.79855651058323
2966	-->	33.57686617266875	35	36.749562101404486
rate Hardy-Littlewood				
2968	-->	33.59384230157902	52	44.95582843481715
2970	-->	33.61081604648784	116	108.92065561310413
2972	-->	33.62778740948215	36	36.82832932217289
rate Hardy-Littlewood				

2974	-->	33.64475639264565	49	36.82144585374462
2976	-->	33.66172299805876	86	76.16821193096224
2978	-->	33.67868722779867	34	36.8573716361152
rate Hardy-Littlewood				
2980	-->	33.69564908393937	59	49.46833262034576
2982	-->	33.712608568551595	95	89.7668462037873
2984	-->	33.72956568370287	41	36.98590870171724
2986	-->	33.7465204314575	44	36.929191107822014
2988	-->	33.763472813876575	79	74.75644879295167
2990	-->	33.78042283301802	58	56.29004567692187
2992	-->	33.7973704909366	49	43.80241765110051
2994	-->	33.81431578968379	84	74.10126701872254
2996	-->	33.83125873130799	45	44.815802678284456
2998	-->	33.84819931785441	46	37.03684036472392
3000	-->	33.865137551365045	104	98.7468078625281
3002	-->	33.88207343387879	40	39.73672562757203
3004	-->	33.8990069674314	41	37.11540574732113
3006	-->	33.915938154055446	78	74.61719589869567
3008	-->	33.9328669957804	36	37.92625738762226
rate Hardy-Littlewood				
3010	-->	33.94979349463259	69	60.840088836866116
3012	-->	33.96671765263525	76	74.57353000424672
3014	-->	33.983639471808445	44	41.58973597707405
3016	-->	34.00055895416919	50	42.054814146679576
3018	-->	34.0174761017314	85	74.53119804063088
3020	-->	34.034390916505856	49	49.9453356973803
rate Hardy-Littlewood				
3022	-->	34.0513034005003	42	37.251852899608465
3024	-->	34.068213555719346	99	89.38821089523591
3026	-->	34.08512138416459	43	40.20405392469426
3028	-->	34.10202688783453	41	37.33026880651515
3030	-->	34.118930068724616	110	100.46811406068097
3032	-->	34.13583092882724	36	37.41566516715221
rate Hardy-Littlewood				
3034	-->	34.15272947013173	48	39.38592410285988
3036	-->	34.16962569462445	92	86.95811547214005
3038	-->	34.186519604288655	43	46.390779274861586
rate Hardy-Littlewood				
3040	-->	34.203411201104586	62	52.78338931057454
3042	-->	34.2203004870495	93	81.61334314882232
3044	-->	34.23718746409763	43	37.47330149398086
3046	-->	34.25407213422019	44	37.4664874372142
3048	-->	34.270954499385404	83	75.51884496228547
3050	-->	34.287834561558505	50	50.8171059357206
rate Hardy-Littlewood				
3052	-->	34.30471232270173	53	45.41509106178028
3054	-->	34.32158778477438	78	75.17468174255353
3056	-->	34.3384609497327	39	37.729791208271784
3058	-->	34.35533181953007	47	42.0257276875828
3060	-->	34.372200396116845	113	106.85705165890577
3062	-->	34.389066681440426	38	37.609369062263994
3064	-->	34.40593067744528	44	37.7013353378086
3066	-->	34.42279238607298	102	91.56085728106676
3068	-->	34.43965180926207	41	41.78035709431976
rate Hardy-Littlewood				
3070	-->	34.45650894894826	58	50.37286274861393
3072	-->	34.47336380706429	79	75.34805363160514
3074	-->	34.49021638553998	41	39.85429063224581
3076	-->	34.507066686302274	44	37.75886960020608
3078	-->	34.52391471127517	83	79.89361273310307
3080	-->	34.540760462379815	68	67.10288305872412
3082	-->	34.55760394153443	47	40.17008690292136
3084	-->	34.57444515065439	83	75.85837935173163
3086	-->	34.59128409165217	37	37.8233822491457

rate Hardy-Littlewood			
3088	-->	34.60812076643737	41 38.014668663339826
3090	-->	34.62495517691673	109 101.89091769194798
3092	-->	34.641787324994134	35 37.90140728118715
rate Hardy-Littlewood			
3094	-->	34.6586172125706	59 52.88046777883253
3096	-->	34.67544484154433	84 77.62406929819696
3098	-->	34.69227021381067	48 37.93025070662265
3100	-->	34.70909333126212	61 52.30835143542035
3102	-->	34.72591419578835	92 86.18777864667823
3104	-->	34.742732809276234	42 38.35873093922538
3106	-->	34.75954917360982	46 38.001445501646955
3108	-->	34.77636329067035	100 93.79277084250567
3110	-->	34.79317516233621	48 50.847425079826294
rate Hardy-Littlewood			
3112	-->	34.80998479048307	46 38.12861207186811
3114	-->	34.82679217698378	82 76.54127044762282
3116	-->	34.843597323708366	45 41.338553571771236
3118	-->	34.8604002325241	41 38.1081617727036
3120	-->	34.877200905295496	117 110.84067958324812
3122	-->	34.89399934388428	44 45.95009752573728
rate Hardy-Littlewood			
3124	-->	34.91079555014944	46 42.98861084355103
3126	-->	34.927589525947155	85 76.4566580202266
3128	-->	34.94438127313092	47 42.656348307009154
3130	-->	34.96117079355143	57 51.08420253772547
3132	-->	34.97795808905667	83 79.2464705843039
3134	-->	34.99474316149191	37 38.25030912883539
rate Hardy-Littlewood			
3136	-->	35.011526012699626	49 45.89237404299646
3138	-->	35.02830664451964	80 76.66968463721041
3140	-->	35.045085058789034	47 51.368163511112115
rate Hardy-Littlewood			
3142	-->	35.06186125734219	44 38.321322679915724
3144	-->	35.07863524201075	75 77.22335698609524
rate Hardy-Littlewood			
3146	-->	35.09540701462369	46 46.46353269471549
rate Hardy-Littlewood			
3148	-->	35.11217657700729	44 38.39901457906597
3150	-->	35.12894393098515	138 122.77729528663669
3152	-->	35.14570907837817	39 38.58249566124994
3154	-->	35.16247202100457	45 41.16441281112657
3156	-->	35.179232760679916	85 77.13665785684681
3158	-->	35.195991299217134	42 38.46323019683104
3160	-->	35.212747638426436	56 51.941364266561564
3162	-->	35.22950178011541	85 84.90883532050469
3164	-->	35.24625372608899	45 46.60658122182976
rate Hardy-Littlewood			
3166	-->	35.26300347814947	44 38.53412442779008
3168	-->	35.27975103809655	93 85.61664032954133
3170	-->	35.29649640772718	52 51.55676398491626
3172	-->	35.313239588835835	47 42.781672107158826
3174	-->	35.32998058321428	83 80.83562258647781
3176	-->	35.34671939265164	42 38.69606709604454
3178	-->	35.36345601893453	52 46.54522310778088
3180	-->	35.38019046384687	112 105.04344157848527
3182	-->	35.39692272917003	40 40.72545141467735
rate Hardy-Littlewood			
3184	-->	35.413652816682784	42 38.865462168622074
3186	-->	35.43038072816129	87 78.73117681080615
3188	-->	35.44710646537914	40 38.753253311098945
3190	-->	35.46383003010738	66 59.49099363965882
3192	-->	35.480551424114445	98 98.44506181422554
rate Hardy-Littlewood			

3194	-->	35.497270649166204	43	38.781943953786644
3196	-->	35.51398770702599	51	42.27947273797581
3198	-->	35.53070259945457	90	86.80954713814171
3200	-->	35.54741532821015	54	51.747598212020826
3202	-->	35.56412589504841	40	38.852661415436984
3204	-->	35.58083430172248	83	78.58512459644123
3206	-->	35.59754054998299	45	46.8419240918034
rate Hardy-Littlewood				
3208	-->	35.61424464157794	48	38.97885054579015
3210	-->	35.630946578252946	110	104.71877571970029
3212	-->	35.647646361750986	44	43.849849248267304
3214	-->	35.66434399381261	42	38.95866465823162
3216	-->	35.681039476175805	87	79.10266378812166
3218	-->	35.69773281057609	37	38.99397968282005
rate Hardy-Littlewood				
3220	-->	35.71442399874648	73	65.35028792174516
3222	-->	35.731113042417455	80	78.45082144589273
3224	-->	35.74779994331708	46	44.03815267326951
3226	-->	35.76448470317088	43	39.06458074228862
3228	-->	35.781167323701915	86	78.40856016110303
3230	-->	35.797847806630806	58	58.84331876064674
rate Hardy-Littlewood				
3232	-->	35.81452615367569	48	39.48816653200718
3234	-->	35.8312023665522	112	104.29580256514271
3236	-->	35.84787644697358	40	39.17705110155433
3238	-->	35.86454839665057	46	39.170410092700386
3240	-->	35.8812182172915	112	104.43689286791093
3242	-->	35.89788591060225	38	39.205667341638524
rate Hardy-Littlewood				
3244	-->	35.914551478286214	39	39.24754916656048
rate Hardy-Littlewood				
3246	-->	35.93121492204445	82	78.57896078731798
3248	-->	35.9478762435755	47	48.82496440612954
rate Hardy-Littlewood				
3250	-->	35.964535444575546	59	57.093772083694056
3252	-->	35.9811925267383	87	78.83114285142076
3254	-->	35.9978474917551	44	39.311381702119924
3256	-->	36.0145003413149	51	44.919793951739166
3258	-->	36.03115107710417	76	79.08422092543907
rate Hardy-Littlewood				
3260	-->	36.04779970080706	55	52.77918685370349
3262	-->	36.06444621410531	52	47.43363490874646
3264	-->	36.08109061867827	89	84.00054374156812
3266	-->	36.097732916202865	44	41.866805313534584
3268	-->	36.11437310835369	46	42.74649411725234
3270	-->	36.13101119680297	110	106.12411415966007
3272	-->	36.14764718322056	38	39.54257009773428
rate Hardy-Littlewood				
3274	-->	36.164281069273926	47	39.48738193831047
3276	-->	36.180912856628176	112	103.3680080115909
3278	-->	36.19754254694612	44	44.18569088238166
rate Hardy-Littlewood				
3280	-->	36.214170141888125	59	54.03898980447492
3282	-->	36.23079564311231	86	79.21226781955323
3284	-->	36.24741905227442	43	39.599468787639665
3286	-->	36.264040371027825	47	41.73580748769066
3288	-->	36.28065960102361	78	79.7591297542679
rate Hardy-Littlewood				
3290	-->	36.297276743910544	67	64.77439055156125
3292	-->	36.313891801335025	45	39.66973942295915
3294	-->	36.330504774941204	90	80.62179494761384
3296	-->	36.34711566637084	39	40.04925638668929
rate Hardy-Littlewood				
3298	-->	36.36372447726348	45	42.76459165162142

3300	-->	36.380331209256276	120	117.60516875261996
3302	-->	36.39693586398414	41	43.66579559651678
rate Hardy-Littlewood				
3304	-->	36.41353844307969	56	48.50859051493318
3306	-->	36.43013894817323	93	87.28186055850445
3308	-->	36.446737380892806	44	39.810168365932455
3310	-->	36.46333374286417	56	53.20057799352574
3312	-->	36.4799280357108	92	83.38434094004465
3314	-->	36.49652026105391	44	39.83867537420212
3316	-->	36.51311042051246	48	39.88032691085316
3318	-->	36.52969851570312	107	96.88135829456652
3320	-->	36.54628454824035	57	53.81257546503913
3322	-->	36.56286851973632	49	44.61384842753095
3324	-->	36.579450431800936	84	80.0948291728054
3326	-->	36.59603028604194	48	39.943881325258936
3328	-->	36.612608084064746	46	43.56804854010473
3330	-->	36.629183827472616	116	109.5905983223293
3332	-->	36.64575751786649	54	51.16471185139898
3334	-->	36.662329156845196	44	40.01397230750234
3336	-->	36.678898746005245	89	80.59900111112707
3338	-->	36.69546628694098	42	40.04900394682847
3340	-->	36.712031781244505	57	53.71358918369369
3342	-->	36.72859523050578	84	80.26440836664254
3344	-->	36.74515663631249	47	47.15004189123739
rate Hardy-Littlewood				
3346	-->	36.76171600025014	52	48.317066830019016
3348	-->	36.778273323902084	89	82.99148689565592
3350	-->	36.79482860884943	57	54.329922981379404
3352	-->	36.811381856671105	45	40.24383631979365
3354	-->	36.827933068943935	94	89.77024352910044
3356	-->	36.84448224724247	41	40.23056505567738
3358	-->	36.86102939313915	55	42.707500756418064
3360	-->	36.87757450820421	138	128.69614745643636
3362	-->	36.89411759400574	43	41.266704695034
3364	-->	36.91065865210968	47	41.743360078198904
3366	-->	36.927197684079815	105	95.45484377604934
3368	-->	36.94373469147774	42	40.38364790706206
3370	-->	36.96026967586296	62	53.90038879805243
3372	-->	36.9768026387928	86	80.93396551399151
3374	-->	36.993333581822434	52	48.61046576319543
3376	-->	37.00986250650497	44	40.55050782264426
3378	-->	37.02638941439134	89	80.8937048361019
3380	-->	37.042914307030316	60	58.752514068203936
3382	-->	37.059437185968626	45	43.2786730797001
3384	-->	37.07595805275083	87	82.65134353641105
3386	-->	37.092476908919394	40	40.46866894120418
rate Hardy-Littlewood				
3388	-->	37.10899375601464	58	53.94961695033568
3390	-->	37.12550859557486	115	108.91827627585666
3392	-->	37.14202142913617	45	41.2911901247471
3394	-->	37.15853225823263	48	40.53848582764833
3396	-->	37.1750410843962	90	81.35255584792296
3398	-->	37.19154790915674	45	40.57338073936365
3400	-->	37.20805273404206	62	57.695194750757565
3402	-->	37.224555560577855	105	97.4025106391021
3404	-->	37.24105639028775	49	43.75053559558665
3406	-->	37.25755522469331	52	44.655427577986735
3408	-->	37.274052065314024	85	82.45128106317048
3410	-->	37.290546913667335	67	62.30519454837149
3412	-->	37.307039771268606	43	40.71936651626822
3414	-->	37.32353063963112	87	81.5215357919894
3416	-->	37.3400195202662	50	49.675650576283736
3418	-->	37.356506414683004	50	40.74772053816533
3420	-->	37.37299132438874	119	115.03422774349679

3422	-->	37.38947425088852	43	43.0098431440339
rate Hardy-Littlewood				
3424	-->	37.40595519568545	40	41.164477282375884
rate Hardy-Littlewood				
3426	-->	37.422434160280574	84	81.73049060866312
3428	-->	37.43891114617296	43	40.858700523126146
3430	-->	37.455386154859596	74	65.32541227722704
3432	-->	37.47185918783549	101	99.02010842177415
3434	-->	37.4883302465936	46	44.02769513825601
3436	-->	37.504799332624906	50	40.92831415144841
3438	-->	37.52126644741836	89	82.22881832616144
3440	-->	37.53773159246092	59	55.88447705201996
3442	-->	37.55419476923756	48	40.9566336402796
3444	-->	37.57065597923117	102	100.80054245692972
3446	-->	37.58711522392276	42	40.991421430002134
3448	-->	37.60357250479129	46	41.08054734672221
3450	-->	37.62002782331378	120	114.54639646838157
3452	-->	37.63648118096519	43	41.06743519939763
3454	-->	37.65293257921857	47	45.89104093656427
3456	-->	37.669382019544976	89	82.10913261175251
3458	-->	37.685829503413515	57	56.92967555370187
3460	-->	37.70227503229127	64	55.106158819671364
3462	-->	37.71871860764342	87	82.35639884340603
3464	-->	37.735160230933175	46	41.219501666648284
3466	-->	37.751599903621766	42	41.1652280700292
3468	-->	37.76803762716849	97	87.80551015513714
3470	-->	37.78447340303069	56	55.06073902903951
3472	-->	37.80090723266378	57	51.13684655987171
3474	-->	37.8173391175212	91	82.8534011912066
3476	-->	37.833769059054525	47	46.40414722084055
3478	-->	37.850197058713306	46	43.36686678456615
3480	-->	37.86662311794524	123	114.11008130315594
3482	-->	37.88304723819603	45	41.304115411476
3484	-->	37.89946942090954	47	45.74518025462069
3486	-->	37.915889667527644	105	100.38035406768029
3488	-->	37.932307979490346	43	41.7187195939057
3490	-->	37.94872435823573	59	55.291929354755595
3492	-->	37.965138805199935	84	83.60514577735404
3494	-->	37.98155132181727	48	41.40818932300853
3496	-->	37.99796190952009	54	45.92470234295135
3498	-->	38.01437056973886	103	93.84732178436981
3500	-->	38.03077730390218	64	66.29838700159472
rate Hardy-Littlewood				
3502	-->	38.04718211343672	54	44.655211730210375
3504	-->	38.0635849997673	88	84.1105218708772
3506	-->	38.07998596431684	40	41.51218511736021
rate Hardy-Littlewood				
3508	-->	38.09638500850641	46	41.55325486577645
3510	-->	38.11278213375513	123	120.7946070615082
3512	-->	38.12917734148038	40	41.63552883660272
rate Hardy-Littlewood				
3514	-->	38.14557063309754	51	50.069629840388984
3516	-->	38.1619620100202	87	83.43596526067752
3518	-->	38.178351473660065	44	41.61610314467917
3520	-->	38.19473902542702	71	61.64406886203766
3522	-->	38.21112466672903	92	83.39643489704912
3524	-->	38.22750839897225	47	41.69174851658071
3526	-->	38.24389022356102	50	43.77212244778961
3528	-->	38.26027014189778	103	100.02957115892842
3530	-->	38.27664815538313	58	55.75344779746174
3532	-->	38.2930242654159	44	41.76094386334015
3534	-->	38.30939847339303	96	91.41859696169598
3536	-->	38.32577078070964	52	48.57971800086019
3538	-->	38.34214118875906	49	44.04646948281138

3540	-->	38.358509698932735	123	113.37551262647608
3542	-->	38.37487631262034	62	58.38741063998607
3544	-->	38.391241031209724	46	41.91219206997012
3546	-->	38.40760385608692	94	84.0983854099075
3548	-->	38.423964788636155	41	41.8992321074839
rate Hardy-Littlewood				
3550	-->	38.44032383023985	60	56.634701049208864
3552	-->	38.45668098227862	93	86.16652854427602
3554	-->	38.47303624613127	43	41.92739408447129
3556	-->	38.48938962317487	51	50.707718505099294
3558	-->	38.50574111478462	91	84.01860074621214
3560	-->	38.52209072233398	62	56.58381352557892
3562	-->	38.538438447194586	59	46.127774041493105
3564	-->	38.55478429073637	104	93.31144757170966
3566	-->	38.57112825432738	47	42.031004490092315
3568	-->	38.587470339333976	50	42.2148395477749
3570	-->	38.60381054712071	154	143.50317241682166
3572	-->	38.62014887905034	48	45.522904627884735
3574	-->	38.636485336483936	50	42.10003581911146
3576	-->	38.65281992078072	96	84.76014300740572
3578	-->	38.66915263329821	47	42.1345388384053
3580	-->	38.68548347539217	62	56.48831749127137
3582	-->	38.70181244841653	80	84.7188234954811
rate Hardy-Littlewood				
3584	-->	38.718139553723624	55	50.59526760201397
3586	-->	38.73446479266389	54	47.157728843863914
3588	-->	38.75078816658611	108	96.45077040527755
3590	-->	38.767109676837286	60	56.44360159708543
3592	-->	38.78342932476274	45	42.32617076868449
3594	-->	38.79974711170598	88	84.63939724022579
3596	-->	38.81606303900886	47	45.343012243162775
3598	-->	38.832377108011464	58	50.93905827467209
3600	-->	38.848689320052166	125	112.80167703773091
3602	-->	38.864999676467605	48	42.34138069633464
3604	-->	38.88130817859274	49	46.042863074135596
3606	-->	38.89761482776078	90	84.8460282089333
3608	-->	38.91391962530326	50	48.2843665412944
3610	-->	38.930222572549944	66	59.84012063400124
3612	-->	38.946523670828974	112	104.2517128630382
3614	-->	38.96282292146674	52	46.615451479624234
3616	-->	38.97912032578792	48	42.820728996063245
3618	-->	38.99541588511555	95	86.21755299336398
3620	-->	39.01170960077095	59	56.946802187993
3622	-->	39.02800147407374	48	42.513519438735116
3624	-->	39.044291506341864	94	85.58504142612468
3626	-->	39.06057969889159	58	52.48731016465661
3628	-->	39.07686605303747	47	42.588650240115015
3630	-->	39.09315057009245	136	126.10027444724841
3632	-->	39.10943325136775	40	42.765267130987326
rate Hardy-Littlewood				
3634	-->	39.125714098172935	50	45.20098501484374
3636	-->	39.14199311181587	95	86.08167557520672
3638	-->	39.15827029360284	45	45.90250476749087
rate Hardy-Littlewood				
3640	-->	39.17454564483839	83	74.43457795228524
3642	-->	39.19081916682541	92	85.46502666356385
3644	-->	39.207090860865215	49	42.726134719860546
3646	-->	39.223360728257376	52	42.71981281646032
3648	-->	39.23962877029985	103	90.45221788902455
3650	-->	39.255894988288965	58	57.77675690664657
3652	-->	39.27215938351939	47	48.084061590608286
rate Hardy-Littlewood				
3654	-->	39.28842195728416	115	106.43752885909295
3656	-->	39.30468271087465	49	42.87627846037529

3658	-->	39.32094164558063	47	45.05202364307395
3660	-->	39.33719876269026	125	116.11279007973916
3662	-->	39.35345406349	46	42.85717740096672
3664	-->	39.36970754926473	46	43.03969355748055
3666	-->	39.38595922129774	102	95.60882149228321
3668	-->	39.402209080870634	56	51.86122824700498
3670	-->	39.41845712926344	58	57.35992792508759
3672	-->	39.43470336775458	95	91.56173171955025
3674	-->	39.45094779762083	54	47.99659874075291
3676	-->	39.46719042013739	50	43.000710641616756
3678	-->	39.483431236577836	97	86.08269688446876
3680	-->	39.49967024821417	64	60.04696474534959
3682	-->	39.51590745631678	60	51.804102880172564
3684	-->	39.53214286215443	98	86.32703219736051
3686	-->	39.54837646699433	50	46.05104086571817
3688	-->	39.56460827210209	46	43.150547199338284
3690	-->	39.58083827874174	124	117.80890263960707
3692	-->	39.59706648817567	50	47.689662386302416
3694	-->	39.61329290166479	47	43.13151554333024
3696	-->	39.62951752046836	125	115.00075464965164
3698	-->	39.64574034584407	42	44.19466725911075
rate Hardy-Littlewood				
3700	-->	39.66196137904803	66	59.19022840159836
3702	-->	39.67818062133483	97	86.49374751436643
3704	-->	39.694398073957444	48	43.287487890792136
3706	-->	39.710613738167304	56	46.52240487805259
3708	-->	39.726827615214276	100	87.31206961288355
3710	-->	39.74303970634665	78	70.54895493980378
3712	-->	39.759250012811194	49	44.86457511526581
3714	-->	39.775458535853076	93	86.69905582992139
3716	-->	39.791665276715975	43	43.34320126459525
rate Hardy-Littlewood				
3718	-->	39.807870236641975	56	52.501339885405955
3720	-->	39.824073416871606	128	119.5330029774554
3722	-->	39.84027481864391	50	43.371137567660384
3724	-->	39.85647444319635	62	55.09896216248476
3726	-->	39.872672291764864	98	90.89567372909504
3728	-->	39.88886836558383	48	43.5870012800852
3730	-->	39.90506266588614	61	58.044332425485486
3732	-->	39.921255193903136	101	87.14776309992294
3734	-->	39.93744595086463	48	43.47371264467936
3736	-->	39.95363493799889	46	43.560985546650066
3738	-->	39.96982215653273	116	105.5626084928225
3740	-->	39.98600760769136	77	68.74340420143898
3742	-->	40.00219129269857	44	43.542056228612076
3744	-->	40.01837321277653	107	94.98732208555711
3746	-->	40.034553369146	46	43.57621611378332
3748	-->	40.05073176302618	47	43.61661745226191
3750	-->	40.066908395634755	123	116.2322581375034
3752	-->	40.08308326818798	56	53.130007863941536
3754	-->	40.0992563819005	42	43.64451212597393
rate Hardy-Littlewood				
3756	-->	40.115427737985556	97	87.55727192772493
3758	-->	40.131597337654874	49	43.67864827508624
3760	-->	40.14776518211866	67	59.52394360048065
3762	-->	40.163931272585664	112	102.79888248787388
3764	-->	40.18009561026314	50	43.75313541130771
3766	-->	40.196258196356844	58	52.664893215943955
3768	-->	40.21241903207107	91	88.04582137467538
3770	-->	40.22857811860862	73	66.00498805468726
3772	-->	40.24473545717083	54	47.035223890374155
3774	-->	40.260891048957575	103	96.09190176253429
3776	-->	40.27704489516724	49	44.577512781006206
3778	-->	40.29319699699675	48	43.84921089022415

3780	-->	40.30934735564157	149	140.2977101103346
3782	-->	40.325495972295684	51	46.14152316518335
3784	-->	40.34164284815164	52	49.941444233210284
3786	-->	40.357787984400524	96	87.92790583676305
3788	-->	40.37393138223196	50	43.95767666017667
3790	-->	40.390073042834096	63	58.72635903477782
3792	-->	40.406212967393685	88	89.03200743317579
rate Hardy-Littlewood				
3794	-->	40.422351157096	55	52.95089936153698
3796	-->	40.43848761312489	50	48.653216051944874
3798	-->	40.45462233666271	100	88.413788054823
3800	-->	40.47075532889043	70	62.13658476275296
3802	-->	40.48688659098756	46	44.05362757904093
3804	-->	40.50301612413221	92	88.37459998868425
3806	-->	40.51914392950099	55	49.24686356313533
3808	-->	40.53527000826912	64	56.42433478550842
3810	-->	40.55139436161042	130	118.53685141205298
3812	-->	40.56751699069724	48	44.16193716110136
3814	-->	40.58363789670054	49	44.155730873995225
3816	-->	40.59975708078984	95	90.03051167084334
3818	-->	40.615874544133234	44	46.84099211071818
rate Hardy-Littlewood				
3820	-->	40.63199028789746	68	59.22316669419629
3822	-->	40.64810431324775	124	115.72522618754785
3824	-->	40.664216621348	48	44.40418536183946
3826	-->	40.680327213360684	52	44.257764520426456
3828	-->	40.696436090446866	109	101.97904018828292
3830	-->	40.7125432537662	67	59.17974662574637
3832	-->	40.72864870447694	46	44.378459549160176
3834	-->	40.74475244373595	100	89.8893614849315
3836	-->	40.76085447269871	58	53.577481963700144
3838	-->	40.77695479251928	57	47.41882426399499
3840	-->	40.793053404350346	128	118.27624322784038
3842	-->	40.80915030934321	49	47.75500241859952
3844	-->	40.82524550864779	50	45.91817224064787
3846	-->	40.84133900341262	98	88.94808391543225
3848	-->	40.85743079478484	51	49.84442269982265
3850	-->	40.873520883910196	87	79.00180454451603
3852	-->	40.88960927193313	93	89.7577594761444
3854	-->	40.90569595999664	52	46.6264085431614
3856	-->	40.92178094924236	50	44.67559470430836
3858	-->	40.93786424081061	98	89.15170495331286
3860	-->	40.95394583584027	59	59.67533043678224
rate Hardy-Littlewood				
3862	-->	40.97002573546891	47	44.56345041531056
3864	-->	40.9861039408327	122	112.02985354782719
3866	-->	41.0021804530665	51	44.59737731094059
3868	-->	41.01825527330375	50	44.637466103057626
3870	-->	41.03432840267661	133	121.85659935847117
3872	-->	41.0503998423158	52	49.583532632876334
3874	-->	41.066469593350774	53	49.03180957284335
3876	-->	41.08253765690959	110	100.87701141825579
3878	-->	41.098604034118964	54	53.80620746462329
3880	-->	41.11466872610428	65	60.21793716195045
3882	-->	41.130731733989556	97	89.55853693832523
3884	-->	41.146793058897536	53	44.77305709293098
3886	-->	41.162852701949575	53	47.11488740844755
3888	-->	41.17891066426569	92	89.52158160204985
3890	-->	41.19496694696457	65	59.857917939694026
3892	-->	41.211021551163604	62	54.14597180772167
3894	-->	41.227074477978825	109	101.3284056676334
3896	-->	41.24312572852497	53	44.92098114449323
3898	-->	41.25917530391542	50	44.86851963563866
3900	-->	41.27522320526225	140	130.50885819534653

3902	-->	41.29126943367622	43	44.902378474082084
rate Hardy-Littlewood				
3904	-->	41.30731399026676	52	45.657235263015934
3906	-->	41.32335687614203	117	111.50865730385381
3908	-->	41.33939809240881	48	44.97621735409073
3910	-->	41.355437640172646	75	66.9687401465186
3912	-->	41.37147552053769	98	90.48652173888632
3914	-->	41.38751173460689	53	48.0983900742583
3916	-->	41.40354628348181	55	50.5722629209831
3918	-->	41.41957916826274	93	90.16776793693941
3920	-->	41.435610390048694	82	72.05064262526496
3922	-->	41.45163994993736	48	47.24420882611688
3924	-->	41.46766784902514	98	90.97329634262836
3926	-->	41.483694088407155	53	49.51085560803314
3928	-->	41.49971866917725	55	45.191519491142046
3930	-->	41.515741592427915	136	121.2424940434995
3932	-->	41.531762859250456	48	45.179108080961434
3934	-->	41.54778247073481	57	54.3741965846439
3936	-->	41.56380042796969	103	92.65005608149194
3938	-->	41.579816732042474	54	50.48786223042574
3940	-->	41.59583138403932	68	60.57665979299524
3942	-->	41.6118443850451	99	91.70891624284769
3944	-->	41.62785573614339	52	50.03715654603918
3946	-->	41.64386543841652	52	45.27433216145184
3948	-->	41.65987349294551	121	111.05813674310633
3950	-->	41.67587990081019	66	61.16435721552873
3952	-->	41.69188466308904	61	52.32748320955016
3954	-->	41.707887780859366	100	90.77579154730812
3956	-->	41.723889255197136	51	48.653052043020146
3958	-->	41.739889087177104	53	45.37561808480925
3960	-->	41.75588727787277	145	134.42831267644482
3962	-->	41.77188382835636	55	54.65753859295066
3964	-->	41.78787873969887	52	45.449213482149915
3966	-->	41.80387201297005	107	90.97820026067296
3968	-->	41.81986364923836	52	47.00384221715635
3970	-->	41.835853649571064	72	60.75865208977744
3972	-->	41.85184201503417	95	91.21798295148265
3974	-->	41.86782874669243	52	45.510562813178375
3976	-->	41.8838138456094	63	55.39679477973181
3978	-->	41.89979731284734	111	105.94064532708816
3980	-->	41.91577914946731	62	61.02585170180371
3982	-->	41.93175935652915	53	50.89953924405688
3984	-->	41.947737935091425	94	92.2691195025499
3986	-->	41.963714886211534	54	45.6116943218251
3988	-->	41.9796902109456	49	45.65148359544206
3990	-->	41.99566391034855	163	154.57976075200838
3992	-->	42.01163598547406	49	45.73117673979243
3994	-->	42.027606437374615	52	45.6790787874646
3996	-->	42.04357526710148	99	93.95596401682413
3998	-->	42.059542475704674	47	45.71276008697085
4000	-->	42.07550806423304	65	60.942295693928436
4002	-->	42.091472033734206	106	99.34995947177599
4004	-->	42.10743438525455	72	66.53148828698338
4006	-->	42.1233951198393	52	45.7801008670072
4008	-->	42.13935423853243	104	92.10297188767777
4010	-->	42.155311742376725	65	61.20755115610862
4012	-->	42.17126763241377	54	49.71879853043611
4014	-->	42.18722190968397	108	92.06381683255513
4016	-->	42.20317457522652	55	46.02548583713339
4018	-->	42.2191256300794	66	56.440871999538
4020	-->	42.2350750752794	133	124.21546935576787
4022	-->	42.251022911862144	43	45.91469541662984
rate Hardy-Littlewood				
4024	-->	42.26696914086204	55	46.00030554083633

4026	-->	42.282913763312315	114	103.7864154615947
4028	-->	42.29885678024504	44	49.59861237651459
rate Hardy-Littlewood				
4030	-->	42.31479819269108	80	69.15478597699301
4032	-->	42.330738001680075	118	110.34223235033488
4034	-->	42.346676208240524	54	46.0155654916154
4036	-->	42.3626128133998	48	46.05523839538342
4038	-->	42.378547818183996	99	92.18989782883838
4040	-->	42.394481223618115	70	62.010989910498054
4042	-->	42.41041303072593	51	48.23189619393583
4044	-->	42.426343240530095	100	92.42861347248316
4046	-->	42.442271854052045	63	58.99976132993754
4048	-->	42.45819887231208	59	53.67343623414783
4050	-->	42.47412429632934	125	123.00575180284939
4052	-->	42.49004812712179	44	46.1895928232376
rate Hardy-Littlewood				
4054	-->	42.50597036570619	55	46.183538579382514
4056	-->	42.52189101309825	109	100.75098235621947
4058	-->	42.53781007031243	44	46.21711172487617
rate Hardy-Littlewood				
4060	-->	42.55372753836206	81	76.67621061860424
4062	-->	42.569643418259325	97	92.59275983713133
4064	-->	42.58555771101526	51	46.61463485653554
4066	-->	42.60147041763973	54	49.44922333976614
4068	-->	42.61738153914148	98	93.3903194695518
4070	-->	42.63329107652808	74	70.5447872138681
4072	-->	42.64919903080601	51	46.403137532299915
4074	-->	42.66510540298052	122	112.35896709044839
4076	-->	42.681010194055816	49	46.390910408086775
4078	-->	42.696913405034884	51	46.38487059837247
4080	-->	42.71281503691963	142	131.92214659484247
4082	-->	42.7287150907108	57	50.939971311940454
4084	-->	42.744613567408	50	46.45795948079789
4086	-->	42.76051046800974	108	93.27105619679641
4088	-->	42.77640579351337	58	56.52012758394043
4090	-->	42.79229954491512	65	62.10247645905577
4092	-->	42.80819172321009	113	106.8493260139633
4094	-->	42.82408232939228	51	49.27020761226222
4096	-->	42.83997136445454	53	46.51296838911613
4098	-->	42.85585882938858	102	93.19609422165543
4100	-->	42.87174472518508	66	63.653296280029565
4102	-->	42.88762905283352	61	56.0678803114116
4104	-->	42.90351181332228	104	98.63993725845378
4106	-->	42.919393007638654	53	46.619435488494986
4108	-->	42.935272636768794	55	51.51145136804635
4110	-->	42.95115070169779	139	125.26829944214911
4112	-->	42.96702720340957	47	46.829873390318575
4114	-->	42.98290214288699	61	55.30510608889195
4116	-->	42.99877552111178	122	112.03300937607388
4118	-->	43.01464733906459	55	49.12851638053206
4120	-->	43.030517597724966	71	62.901871598048686
4122	-->	43.04638629807134	96	93.87296752492215
4124	-->	43.062253441081076	53	46.79278218217325
4126	-->	43.07811902773039	50	46.78677084841723
4128	-->	43.09398305899448	107	95.84360594077702
4130	-->	43.10984553584738	82	76.18966731174685
4132	-->	43.1257064592621	54	46.85966269057655
4134	-->	43.1415658302105	113	104.18014271192345
4136	-->	43.15742364966339	55	53.20973042879528
4138	-->	43.17327991859049	56	46.88708820335111
4140	-->	43.18913463796044	147	130.96951127425194
4142	-->	43.204987808740796	52	50.12062317936855
4144	-->	43.220839431898035	64	57.905970398941164
4146	-->	43.236689508397546	100	93.99877106532433

4148	-->	43.25253803920366	52	50.926622237044505
4150	-->	43.26838502527962	70	63.39266465348705
4152	-->	43.28423046758763	107	94.51227689532872
4154	-->	43.300074367088754	54	49.36670203788733
4156	-->	43.31591672474306	53	47.06013742477507
4158	-->	43.33175754150949	138	125.4173355538352
4160	-->	43.34759681834599	69	68.4337452071042
4162	-->	43.363434556209356	57	47.08753533630154
4164	-->	43.3792707560554	104	94.43612204611877
4166	-->	43.395105418838845	55	47.12091897821748
4168	-->	43.410938545513325	56	47.205758845791
4170	-->	43.42677013703145	137	126.60185515755488
4172	-->	43.442600194344784	62	56.962913603828106
4174	-->	43.458428718403795	47	47.18766558567712
rate Hardy-Littlewood				
4176	-->	43.47425571015797	108	97.85840225243
4178	-->	43.49008117055567	52	47.22102856848445
4180	-->	43.50590510054423	81	74.06289394523341
4182	-->	43.52172750106997	106	103.34473830556979
4184	-->	43.53754837307813	50	47.33914126039175
4186	-->	43.55336771751292	72	64.82074951673201
4188	-->	43.56918553531752	104	94.83612710000494
4190	-->	43.58500182743403	64	63.21587137354558
4192	-->	43.60081659480356	54	47.68193349159128
4194	-->	43.61662983836616	102	95.07343758054171
4196	-->	43.63244155906084	49	47.39371018810883
4198	-->	43.64825175782555	53	47.38774061684608
4200	-->	43.6640604355973	165	151.62181804293095
4202	-->	43.67986759331196	54	52.943629632124775
4204	-->	43.69567323190445	50	47.460342591238636
4206	-->	43.711477352308634	105	94.99931684931506
4208	-->	43.72727995545732	45	47.63025443459164
rate Hardy-Littlewood				
4210	-->	43.74308104228234	66	63.437863422274354
4212	-->	43.75888061371451	107	103.59658922841396
4214	-->	43.77467867068356	62	58.38830504793818
4216	-->	43.790475214118246	54	52.43042620852726
4218	-->	43.80627024494633	116	103.53128246823094
4220	-->	43.82206376409452	68	63.70116641320586
4222	-->	43.83785577248852	56	47.587569895348466
4224	-->	43.853646271053	112	105.73702388764656
4226	-->	43.86943526071166	53	47.620851010879875
4228	-->	43.885222742387185	63	57.52140895060172
4230	-->	43.9010087170012	137	129.84016753628768
4232	-->	43.91679318547439	51	49.91718351874909
4234	-->	43.93257614872639	55	50.126421725660116
4236	-->	43.94835760767589	105	95.63467025429176
4238	-->	43.96413756324046	57	52.357510277303895
4240	-->	43.97991601633682	72	64.86711582138032
4242	-->	43.99569296788057	122	115.71244231397284
4244	-->	44.01146841878641	52	47.79309758683142
4246	-->	44.027242369967944	59	53.34968000449044
4248	-->	44.04301482233787	106	97.23905404629984
4250	-->	44.05878577680783	75	67.97920934465014
4252	-->	44.07455523428853	52	47.85956765012599
4254	-->	44.09032319568964	105	95.79754934730752
4256	-->	44.10608966191988	64	60.794773307438554
4258	-->	44.12185463388696	53	47.88685700952189
4260	-->	44.13761811249761	139	129.53305256941402
4262	-->	44.15338009865757	51	47.920077518083275
4264	-->	44.169140593271614	63	53.61028289455869
4266	-->	44.18489959724356	105	97.10655416448934
4268	-->	44.200657111476154	55	53.83568430248392
4270	-->	44.21641313687127	85	78.0431378781306

4272	-->	44.23216767432977	115	97.06423393649274
4274	-->	44.247920724751516	55	48.01969891975746
4276	-->	44.26367228903543	61	48.05881715915504
4278	-->	44.27942236807945	115	104.10533750944418
4280	-->	44.295170962780546	71	64.67280644610865
4282	-->	44.31091807403471	59	48.08607983260605
4284	-->	44.32666370273701	131	123.0853210008678
4286	-->	44.34240784978148	56	48.11926030697921
4288	-->	44.35815051606125	56	48.85359209473451
4290	-->	44.37389170246845	165	155.57163629819598
4292	-->	44.38963140989428	56	51.356332954531574
4294	-->	44.405369639228965	48	51.45569987437828
rate Hardy-Littlewood				
4296	-->	44.421106391361775	108	96.90386673966057
4298	-->	44.436841667181014	62	58.02520126388347
4300	-->	44.45257546757405	80	65.85175795665248
4302	-->	44.4683077934273	102	96.86594596272082
4304	-->	44.484038645626185	56	48.42674713449408
4306	-->	44.49976802505524	58	48.28506318211814
4308	-->	44.51549593259801	100	96.82887130897733
4310	-->	44.53122236913711	68	64.54446616254073
4312	-->	44.546947335554194	70	64.41645690389686
4314	-->	44.56267083273	106	96.79263196268975
4316	-->	44.57839286154428	60	53.391640059693785
4318	-->	44.59411342287589	58	51.99887037948863
4320	-->	44.609832517602705	140	129.00962305174284
4322	-->	44.62555014660169	49	48.41758656869448
4324	-->	44.64126631074889	58	51.84409791601274
4326	-->	44.65698101091934	124	117.37866927436157
4328	-->	44.67269424798722	50	48.534727404972514
4330	-->	44.688406022825774	72	64.7651247133254
4332	-->	44.70411633630724	110	102.65920569292591
4334	-->	44.719825189302995	60	54.159111738313044
4336	-->	44.735532582683454	53	48.691400167901165
4338	-->	44.75123851731815	109	97.46131058229673
4340	-->	44.76694299407564	85	80.34895200445847
4342	-->	44.782646013823566	61	53.296376482225575
4344	-->	44.798347577428686	112	97.69726018371854
4346	-->	44.814047685756776	52	50.81703688138608
4348	-->	44.829746339672724	55	48.65513473911918
4350	-->	44.845443540040534	143	134.47431277121933
4352	-->	44.86113928772323	55	51.886303826815265
4354	-->	44.876833583582965	65	58.58090588397728
4356	-->	44.89252642848094	118	108.16995681450561
4358	-->	44.90821782327747	50	48.71538051363998
4360	-->	44.92390776883198	70	65.55303223234401
4362	-->	44.93959626600292	102	97.58656566298652
4364	-->	44.95528331564789	53	48.787361544419085
4366	-->	44.970968918623555	60	51.032110866837
4368	-->	44.9866530757857	136	127.70352972508674
4370	-->	45.00233578798916	76	72.1632196012853
4372	-->	45.018017056087906	55	48.85343602224108
4374	-->	45.03369688093498	102	97.65043675458837
4376	-->	45.04937526338257	59	48.93135455744752
4378	-->	45.06505220428189	60	54.56251647438181
4380	-->	45.08072770448333	140	132.16838796887882
4382	-->	45.096401764836344	65	58.85818634992467
4384	-->	45.112074386189505	50	49.270073732205645
4386	-->	45.12774556939048	117	106.91750340100113
4388	-->	45.14341531528604	48	48.985507437624065
rate Hardy-Littlewood				
4390	-->	45.1590836247221	73	65.42580015843163
4392	-->	45.17475049854364	106	99.60777973256208
4394	-->	45.19041593759477	55	53.44399507718697

4396	-->	45.206079942718745	69	59.18760491999813
4398	-->	45.221742514757885	106	98.1807898906439
4400	-->	45.23740365455362	81	72.6516007764117
4402	-->	45.25306336294658	58	51.48340256981142
4404	-->	45.2687216407764	113	98.41453943359086
4406	-->	45.28437848888192	51	49.11162095579105
4408	-->	45.300033908101085	62	53.92010543426495
4410	-->	45.31568789927092	171	157.19136397504758
4412	-->	45.33134046322763	45	49.18342163039738
rate denise				
rate Hardy-Littlewood				
4414	-->	45.34699160080648	49	49.17757095263044
rate Hardy-Littlewood				
4416	-->	45.362641312841944	111	103.02655407002086
4418	-->	45.37828960016755	49	50.281321176023106
rate Hardy-Littlewood				
4420	-->	45.39393646361599	86	76.34188708841542
4422	-->	45.40958190401907	113	111.06325041293596
4424	-->	45.42522592220777	69	59.852572262453485
4426	-->	45.44086851901215	54	49.27644801612398
4428	-->	45.45650969526142	108	101.067995269223
4430	-->	45.47214945178393	70	65.86517978143965
4432	-->	45.48778778940718	53	49.482881823879616
4434	-->	45.50342470895779	105	98.77397566666275
4436	-->	45.51906021126151	53	49.38110576545825
4438	-->	45.53469429714326	70	59.41161934442621
4440	-->	45.55032696742709	138	135.41341325389766
4442	-->	45.565958222936196	50	49.40819494451412
4444	-->	45.581588064492884	60	55.446018891908224
4446	-->	45.59721649291865	125	114.16550649177971
4448	-->	45.612843509034136	46	49.796167533279075
rate Hardy-Littlewood				
4450	-->	45.6284691136591	77	66.69359484823562
4452	-->	45.64409330761247	127	121.05169882969301
4454	-->	45.659716091712326	61	53.1928539024816
4456	-->	45.6753374667759	52	49.59034381794119
4458	-->	45.69095743361958	105	99.16886136063837
4460	-->	45.70657599305888	73	66.34425663297482
4462	-->	45.72219314590849	59	52.4564755932572
4464	-->	45.73780889298229	109	102.55231878444924
4466	-->	45.753423235093265	73	68.55976367783687
4468	-->	45.769036173053586	57	49.64432954540489
4470	-->	45.78464770767459	147	133.21017183927705
4472	-->	45.80025783976675	49	55.465401577597426
rate Hardy-Littlewood				
4474	-->	45.81586657013973	57	49.67138491443132
4476	-->	45.83147389960235	108	99.59895731042201
4478	-->	45.84707982896261	48	49.704255315647785
rate Hardy-Littlewood				
4480	-->	45.86268435902764	88	79.51757042148976
4482	-->	45.878287490603746	107	100.65735951717953
4484	-->	45.89388922449646	60	53.580523176315246
4486	-->	45.9094895615104	61	49.769977302204595
4488	-->	45.925088502449405	127	117.95960305370208
4490	-->	45.940686048116525	71	66.52266826964964
4492	-->	45.95628219931388	53	49.84148315249049
4494	-->	45.97187695684287	132	120.69095943183093
4496	-->	45.987470321504	54	50.00851033558231
4498	-->	46.00306229409698	64	54.69581329563067
4500	-->	46.01865287542072	138	132.96733233247375
4502	-->	46.03424206627329	52	49.901346215907175
4504	-->	46.049829867451905	58	49.984524931488245
4506	-->	46.06541627975305	101	99.95727555370436
4508	-->	46.08100130397231	61	62.76714793883289

rate Hardy-Littlewood			
4510	-->	46.0965849409045	90 75.88957282675491
4512	-->	46.112167191343616	115 102.14297044630439
4514	-->	46.12774805608284	55 52.27685808309464
4516	-->	46.143327535914516	57 50.038412030906386
4518	-->	46.15890563163023	101 100.422605427181
4520	-->	46.17448234402073	72 67.30340555300083
4522	-->	46.190057673875934	77 67.8233418417921
4524	-->	46.205631621985	126 113.26631384153146
4526	-->	46.22120418913622	57 52.532443186216945
4528	-->	46.23677537611718	58 50.270728063685674
4530	-->	46.252345183714574	149 134.52042828929126
4532	-->	46.26791361271431	51 56.24616011819033
rate Hardy-Littlewood			
4534	-->	46.283480663901535	57 50.16378542583159
4536	-->	46.299046338060556	131 120.37929519060182
4538	-->	46.314610635974894	54 50.19656247163915
4540	-->	46.33017355842729	72 67.21851866188021
4542	-->	46.3457351061997	107 100.54741100385861
4544	-->	46.361295280073186	55 50.95146968888519
4546	-->	46.37685408082816	55 50.26209807130901
4548	-->	46.392411509244134	111 100.77932847591737
4550	-->	46.4079675660999	90 87.74878130290666
4552	-->	46.42352225217342	57 50.37781212170969
4554	-->	46.43907556824183	131 117.11332578105046
4556	-->	46.454627515081604	55 54.50245957303464
4558	-->	46.4701780934683	58 52.57710846756939
4560	-->	46.485727304176734	147 142.1777546524855
4562	-->	46.50127514798096	52 50.39309550076182
4564	-->	46.51682162565425	70 60.84039426104796
4566	-->	46.53236673796905	111 100.94028080310224
4568	-->	46.54791048569707	54 50.50871132779907
4570	-->	46.56345286960919	72 67.39641950569852
4572	-->	46.578993890475566	110 101.71290412602366
4574	-->	46.59453354906558	50 50.491279245699126
rate Hardy-Littlewood			
4576	-->	46.61007184614777	68 61.19460992601663
4578	-->	46.62560878248996	129 122.33734385482428
4580	-->	46.64114435885918	77 67.65442439105259
4582	-->	46.65667857602169	52 53.08688129334221
rate Hardy-Littlewood			
4584	-->	46.67221143474298	109 101.63689583383798
4586	-->	46.68774293578773	54 50.58940806274447
4588	-->	46.70327307991995	61 53.82303733600548
4590	-->	46.718801867902776	158 143.92899787954124
4592	-->	46.73432930049862	61 62.29709199630217
rate Hardy-Littlewood			
4594	-->	46.74985537846915	57 50.65479685123188
4596	-->	46.76538010257521	110 101.56403553727417
4598	-->	46.780903473576934	59 59.60638226289032
rate Hardy-Littlewood			
4600	-->	46.796425492233666	71 70.79358039204881
4602	-->	46.811946159304014	112 112.55465374420783
rate Hardy-Littlewood			
4604	-->	46.82746547554581	55 50.75858684946804
4606	-->	46.842983441716086	67 62.22976570505226
4608	-->	46.85850005857118	117 101.49424811558352
4610	-->	46.87401532686664	72 67.83207348722985
4612	-->	46.889529247357295	53 50.82391109571379
4614	-->	46.905041820797116	114 101.72470480340658
4616	-->	46.92055304793948	54 50.90082562225943
4618	-->	46.93606292953686	57 50.85081779386309
4620	-->	46.95157146634106	190 180.7826244004569
4622	-->	46.96707865910309	54 50.883466815457915

4624	-->	46.98258450857327	56	54.269614999515206
4626	-->	46.99808901550111	110	102.18734386733733
4628	-->	47.0135921806354	59	56.177003021674764
4630	-->	47.02909400472419	77	68.04959909792703
4632	-->	47.04459448851475	107	102.41953085346131
4634	-->	47.060093632753656	68	61.33710814410403
4636	-->	47.0755914381867	58	54.88906805879665
4638	-->	47.09108790555893	107	102.11626495039327
4640	-->	47.106583035614705	69	70.53000570436903
rate Hardy-Littlewood				
4642	-->	47.122076829097594	65	56.96528425494679
4644	-->	47.13756928675042	113	104.5716585926712
4646	-->	47.1530604093153	59	54.02882201414889
4648	-->	47.16855019753359	69	62.04489730282662
4650	-->	47.184038652145944	151	140.93751372124606
4652	-->	47.19952577389227	53	51.15017152212996
4654	-->	47.21501156351169	59	56.08503501041858
4656	-->	47.23049602174266	114	103.35411616883471
4658	-->	47.24597914932287	59	54.969579696038345
4660	-->	47.261460946989295	73	68.52383118310667
4662	-->	47.27694141547816	136	126.36036692275947
4664	-->	47.29242055552499	68	58.008824771722956
4666	-->	47.307898367864546	56	51.24221018543089
4668	-->	47.3233748532309	113	102.7378452037846
4670	-->	47.33885001235738	74	68.48405318587767
4672	-->	47.35432384597657	57	51.9912076965205
4674	-->	47.36979635482038	122	111.3890930386569
4676	-->	47.38526753961996	70	61.93512005127975
4678	-->	47.40073740110574	57	51.339924033682586
4680	-->	47.41620594000742	165	149.33599419734935
4682	-->	47.431673157054036	54	51.37248345423853
4684	-->	47.44713905297384	62	51.41075012823657
4686	-->	47.462603628494385	127	115.83948929193235
4688	-->	47.47806688434255	50	51.575994823702345
rate Hardy-Littlewood				
4690	-->	47.49352882124443	95	83.53064004577836
4692	-->	47.50898943992545	119	114.94624628715376
4694	-->	47.524448741110334	56	51.47012622177122
4696	-->	47.53990672552304	58	51.552431171789706
4698	-->	47.55536339388687	114	106.77484182252017
4700	-->	47.570818746924395	75	70.18849743399129
4702	-->	47.586272785357416	57	51.53519188742165
4704	-->	47.601725509907155	131	123.67086519332929
4706	-->	47.61717692129402	61	56.54591579864275
4708	-->	47.632627020237756	65	57.83680023326149
4710	-->	47.648075807457396	148	138.42953888884088
4712	-->	47.663523283671275	54	56.51332542756408
rate Hardy-Littlewood				
4714	-->	47.678969449596984	55	51.63274624773898
4716	-->	47.69441430595145	112	104.05459424309981
4718	-->	47.70985785345093	60	62.157001474870725
rate Hardy-Littlewood				
4720	-->	47.725300092810905	81	70.08787210536626
4722	-->	47.740741024746235	109	103.48335283149405
4724	-->	47.75618064997098	56	51.73594178714066
4726	-->	47.77161896919861	59	55.558165280229765
4728	-->	47.787055983141855	113	103.97969724376958
4730	-->	47.802491692512724	78	78.52268455644968
rate Hardy-Littlewood				
4732	-->	47.81792609802258	75	67.75472940871002
4734	-->	47.833359200382034	119	103.94338670238689
4736	-->	47.84879100030106	58	53.269271787649146
4738	-->	47.86422149848892	57	54.81010734604102
4740	-->	47.87965069565416	154	139.98683307968278

4742	-->	47.895078592504674	58	51.86016801995252
4744	-->	47.91050518974767	60	51.94226225154667
4746	-->	47.92593048808963	139	125.61134507947244
4748	-->	47.94135448823638	54	51.930775766957424
4750	-->	47.956777190893035	83	73.27513519478187
4752	-->	47.97219859676404	121	115.37655731997071
4754	-->	47.987618706553185	60	51.95754702643502
4756	-->	48.00303752096352	61	55.25748839261074
4758	-->	48.01845504069746	122	115.30679557419914
4760	-->	48.03387126645671	87	88.71996824852538
rate Hardy-Littlewood				
4762	-->	48.0492861989423	59	52.02243733635165
4764	-->	48.06469983885462	114	104.29697719328803
4766	-->	48.08011218689331	54	52.054873802072095
4768	-->	48.0955232437574	57	52.40331525398907
4770	-->	48.11093301014516	147	141.56359219124175
4772	-->	48.1263414867543	55	52.12540068127852
4774	-->	48.14174867428179	79	71.8591522891154
4776	-->	48.15715457342391	116	104.75727325086729
4778	-->	48.17255918487626	56	52.15214851828261
4780	-->	48.18796250933388	73	69.82206203638222
4782	-->	48.203364547490985	108	104.45668166639234
4784	-->	48.21876530004122	61	59.633067676970235
4786	-->	48.234164767677505	59	52.216969491385036
4788	-->	48.249562951092145	143	132.67823798714593
4790	-->	48.26495985097677	78	69.7827172298562
4792	-->	48.28035546802232	60	52.33125779669302
4794	-->	48.29574980291903	127	113.96539556632953
4796	-->	48.31114285635656	66	58.627452631424134
4798	-->	48.32653462902386	58	52.314157820107326
4800	-->	48.34192512160922	150	139.4894332032382
4802	-->	48.357314334800265	64	62.78967767251197
4804	-->	48.37270226928398	61	52.38457771774203
4806	-->	48.388088925746644	114	105.91784179790201
4808	-->	48.403474304873924	51	52.4607391898567
rate Hardy-Littlewood				
4810	-->	48.418858407350825	85	78.38012435049863
4812	-->	48.43424123386167	108	105.07404435513396
4814	-->	48.449622785090156	60	55.03456880920331
4816	-->	48.46500306171929	75	64.4604308453033
4818	-->	48.48038206443145	128	118.20671864700896
4820	-->	48.495759793908356	79	70.25327192658276
4822	-->	48.51113625083107	62	52.50837982384515
4824	-->	48.52651143588001	120	106.62101052241334
4826	-->	48.54188534973495	58	56.0531633334861
4828	-->	48.55725799307498	64	56.84960115576842
4830	-->	48.57262936657857	189	176.17196521894783
4832	-->	48.58799947092355	59	52.92027077233144
4834	-->	48.60336830678709	63	52.60541383348887
4836	-->	48.618735874845704	121	118.72057373227317
4838	-->	48.63410217577527	58	54.91186189283853
4840	-->	48.64946721025104	82	77.973547931398
4842	-->	48.66483097894758	114	105.69098991886933
4844	-->	48.68019348253885	69	63.5669443964086
4846	-->	48.69555472169816	58	52.70239673646199
4848	-->	48.71091469709816	105	106.45817786178449
rate Hardy-Littlewood				
4850	-->	48.72627340941088	74	71.02377471680069
4852	-->	48.741630859307726	62	52.772657935796545
4854	-->	48.756987047459425	114	105.6212655198737
4856	-->	48.772341974536126	53	52.84863755256623
4858	-->	48.78769564120724	68	63.516673417733
4860	-->	48.80304804814163	154	140.78329432086207
4862	-->	48.81839919600752	70	68.27944940434838

4864	-->	48.833749085472476	57	55.933450429483244
4866	-->	48.84909771720343	114	105.81500576009077
4868	-->	48.86444509186667	54	52.90183682501508
4870	-->	48.8797912101279	73	70.64466294438388
4872	-->	48.895136072652114	139	131.63888117618868
4874	-->	48.910479680103776	53	52.92849235318731
4876	-->	48.92582203314665	64	56.530163059757434
4878	-->	48.9411631324439	109	106.27169119300137
4880	-->	48.95650297865805	74	71.80364038134869
4882	-->	48.971841572451005	63	52.99304044981286
4884	-->	48.98717891448404	126	121.1141892507838
4886	-->	49.0025150054178	69	63.78760836736715
4888	-->	49.017849845912316	62	59.125026895429826
4890	-->	49.03318343662704	149	142.30739218034992
4892	-->	49.048515778220704	51	53.09543663181094
rate Hardy-Littlewood				
4894	-->	49.06384687135148	60	53.08982056586637
4896	-->	49.07917671667694	122	113.24638553763756
4898	-->	49.09450531485398	53	55.644811462524665
rate Hardy-Littlewood				
4900	-->	49.109832666538914	94	84.98639014465417
4902	-->	49.125158772387444	123	115.26042609520488
4904	-->	49.14048363305463	58	53.23572535521338
4906	-->	49.15580724919492	65	59.33936030623706
4908	-->	49.171129621462185	103	106.62328825507235
rate Hardy-Littlewood				
4910	-->	49.186450750509614	75	71.07451131874853
4912	-->	49.20177063698983	61	53.38768176628738
4914	-->	49.217089281554834	150	139.36405633587384
4916	-->	49.232406684856024	54	53.28883535363289
4918	-->	49.247722847544175	57	53.283230083879616
4920	-->	49.26303777026942	152	145.71668593402302
4922	-->	49.27835145368136	60	56.36330053542987
4924	-->	49.29366389842893	55	53.353257129912734
4926	-->	49.30897510516045	117	106.78219622793422
4928	-->	49.32428507452367	70	71.1227895371629
rate Hardy-Littlewood				
4930	-->	49.33959380716573	84	78.69784942813689
4932	-->	49.354901303733136	118	107.53932687429956
4934	-->	49.3702075648718	62	53.412058635237095
4936	-->	49.3851259122704	60	53.49333867531103
4938	-->	49.40081638344358	105	106.97533441502179
rate Hardy-Littlewood				
4940	-->	49.4161189421655	89	82.30130394917803
4942	-->	49.43142026803634	73	64.3284986164362
4944	-->	49.44672036169899	121	108.0005961788299
4946	-->	49.46201922379576	57	53.508621974082494
4948	-->	49.47731685496835	61	53.546389723199574
4950	-->	49.49261325585788	167	158.57528098672975
4952	-->	49.50790842710485	54	53.6220128981079
4954	-->	49.5232023693492	64	53.572969966164564
4956	-->	49.53849508323024	145	130.81727554316487
4958	-->	49.553786569386666	55	55.96237530408344
rate Hardy-Littlewood				
4960	-->	49.569076828456645	81	73.93046391772437
4962	-->	49.58436586107773	112	107.36131341050478
4964	-->	49.59965366788684	61	58.01293339382068
4966	-->	49.61494022495203	70	58.83455802336721
4968	-->	49.630225606613934	119	112.4386576946437
4970	-->	49.64550973980287	92	87.13272277641845
4972	-->	49.66079264972171	68	60.19978229297789
4974	-->	49.67607433700446	115	107.55415484287713
4976	-->	49.691354802284515	55	53.90207901270918
4978	-->	49.706634046194694	61	57.34682927183537

4980	-->	49.721912069367235	159	145.1307981574461
4982	-->	49.73718887243377	58	56.049312071296285
4984	-->	49.75246445602538	70	65.29293635627197
4986	-->	49.76773882077256	117	108.00841728358112
4988	-->	49.783011967305185	65	57.17952628327948
4990	-->	49.79828389625257	84	71.9319985820858
4992	-->	49.813554608243464	126	117.50559003318641
4994	-->	49.828824103906	60	60.12469241137388
rate Hardy-Littlewood				
4996	-->	49.84409238386775	63	53.932061774884566
4998	-->	49.859359448755725	144	137.9965543628582
5000	-->	49.87462529919634	76	71.89461300498202
5002	-->	49.889889935815425	56	56.25764182502248
rate Hardy-Littlewood				
5004	-->	49.90515335923824	121	108.69377018928805
5006	-->	49.92041557008948	63	53.990697731239
5008	-->	49.93567656899323	56	54.158754738757885
5010	-->	49.95093635657303	154	144.87599469066475
5012	-->	49.96619493345185	68	65.18693729898578
5014	-->	49.98145230025209	67	57.135357590644475
5016	-->	49.996708457595545	145	127.17495649053352
5018	-->	50.01196340610344	63	59.28923446199141
5020	-->	50.027217146396474	75	72.39818225190045
5022	-->	50.04246967909477	119	111.92582675098302
5024	-->	50.05772100481782	56	54.462641864264356
5026	-->	50.0729711241846	79	65.13742064156995
5028	-->	50.08822003781352	121	108.55088547956233
5030	-->	50.1034677463224	82	72.3596528237075
5032	-->	50.11871425032849	64	59.44063992832113
5034	-->	50.133959550448516	116	108.51689367473467
5036	-->	50.149203647298606	63	54.25285690311821
5038	-->	50.164446541494286	70	60.516267355262634
5040	-->	50.179688233650594	184	173.5737256380215
5042	-->	50.194928724381974	59	54.27935598803713
5044	-->	50.21016801430233	66	59.831068495271765
5046	-->	50.22540610402493	115	112.60120588915916
5048	-->	50.240642994162556	54	54.39222726008354
rate Hardy-Littlewood				
5050	-->	50.25587868532743	80	73.16082466639119
5052	-->	50.27111317813117	117	108.93523540001486
5054	-->	50.28634647318484	76	69.06149212523607
5056	-->	50.30157857109899	64	55.07607354135596
5058	-->	50.316809472483584	122	109.16183688935703
5060	-->	50.33203917794803	87	84.43344196620767
5062	-->	50.3472676881012	61	54.43953329488103
5064	-->	50.36249500355136	123	109.38895626210594
5066	-->	50.377721124906294	61	58.47514439656611
5068	-->	50.3929460527732	77	65.72439469634838
5070	-->	50.40816978775868	176	158.49325917346445
5072	-->	50.42339233046885	57	54.671074768172005
5074	-->	50.43861368150925	58	56.823396111714764
5076	-->	50.45383384148491	118	111.48370976538193
5078	-->	50.469052811000175	51	54.567578851976236
rate Hardy-Littlewood				
5080	-->	50.48427059065904	83	73.33143617387051
5082	-->	50.49948718106477	159	145.54154937927788
5084	-->	50.5147025828202	64	57.92475354561337
5086	-->	50.52991679652758	61	54.63156965522224
5088	-->	50.5451298227886	118	111.39434825464163
5090	-->	50.56034166220442	82	72.99979349403516
5092	-->	50.575552315375674	66	58.76360153396841
5094	-->	50.590761782902405	120	109.73725173066009
5096	-->	50.60597006538416	77	71.59424399560895
5098	-->	50.62117716341993	68	54.727516013746765

5100	-->	50.6363830776081	167	155.65376276242392
5102	-->	50.65158780854664	56	54.75948752929173
5104	-->	50.6667913568329	72	63.09102782179106
5106	-->	50.68199372306368	130	118.03490374754028
5108	-->	50.697194907835275	55	54.82893641048758
5110	-->	50.712394911743424	101	88.91809186662668
5112	-->	50.72759373538333	127	111.22478472467945
5114	-->	50.74279137934969	65	54.85537033977652
5116	-->	50.75798784423661	61	54.892839063137316
5118	-->	50.773183130637705	122	109.86067163592459
5120	-->	50.788377239146044	76	73.1757852623171
5122	-->	50.80357017035414	65	60.19564388549683
5124	-->	50.818761924854	148	134.02686679372854
5126	-->	50.8339525032371	64	61.29727584154189
5128	-->	50.84914190609438	53	55.031714239170306
rate Hardy-Littlewood				
5130	-->	50.86433013401621	167	155.1859650482105
5132	-->	50.879517187592455	61	55.02058117851327
5134	-->	50.8947030674125	65	59.05356193080862
5136	-->	50.90988777406512	121	111.06699054557723
5138	-->	50.92507130813863	69	66.21157540804127
5140	-->	50.940253670220756	84	73.67649224787529
5142	-->	50.95543486089874	123	110.2437513821201
5144	-->	50.97061488075929	59	55.15935855840044
5146	-->	50.985793730388586	61	57.69260157607383
5148	-->	51.000971410372244	140	133.58874128479897
5150	-->	51.016147921295435	76	74.22275598349998
5152	-->	51.03132326374274	73	69.315419824544
5154	-->	51.04649743829826	121	110.43514990080965
5156	-->	51.06167044554551	59	55.212037016712145
5158	-->	51.07684228606756	60	55.20653543021139
5160	-->	51.09201296044694	167	150.79316699790226
5162	-->	51.107182469265595	59	57.92027757897165
5164	-->	51.12235081310505	59	55.27581384305837
5166	-->	51.13751799254621	144	135.9973158785645
5168	-->	51.152684008169565	65	62.416775687499495
5170	-->	51.16784886055499	90	83.71741956058749
5172	-->	51.18301255028192	110	110.85126837142185
rate Hardy-Littlewood				
5174	-->	51.19817507792923	69	60.64740258148739
5176	-->	51.21333644407528	62	55.4143968464341
5178	-->	51.22849664929796	121	110.81766565391727
5180	-->	51.24365569417454	89	91.10754848623193
rate Hardy-Littlewood				
5182	-->	51.258813579281934	69	55.397813443284186
5184	-->	51.273970305196386	126	110.78471564572304
5186	-->	51.28912587249375	61	55.42967492787829
5188	-->	51.30428028174929	59	55.46701955167235
5190	-->	51.319433533537776	159	148.70496517140955
5192	-->	51.3345856284335	67	62.69888056506499
5194	-->	51.34973656701021	71	67.87163070175833
5196	-->	51.36488634984114	118	111.23334777231086
5198	-->	51.38003497749904	64	58.670742695278506
5200	-->	51.39518245055616	90	80.75604240479234
5202	-->	51.41032876958421	130	118.4761621310157
5204	-->	51.425473935154415	58	55.5943864658737
5206	-->	51.44061794783749	61	59.27204353794505
5208	-->	51.45576080820362	144	138.00031147963173
5210	-->	51.470902516822555	75	74.27533782092293
5212	-->	51.48604307426345	63	55.65803897987533
5214	-->	51.501182481095015	132	125.23041813098375
5216	-->	51.51632073788546	63	55.992752069355326
5218	-->	51.531457845202446	60	55.68438070338544
5220	-->	51.54659380361316	160	153.97632673240446

5222	-->	51.56172861368435	73	67.01396330915097
5224	-->	51.57686227598214	61	55.79633341374705
5226	-->	51.59199479107224	131	123.4559910074573
5228	-->	51.607126159519844	56	55.785282327479756
5230	-->	51.622256381889635	85	74.48732474696607
5232	-->	51.637385458745825	115	112.59125983573155
5234	-->	51.65251339065208	63	55.81161006031645
5236	-->	51.66764017817165	86	79.36878268820064
5238	-->	51.682765821867186	119	112.81934961424531
5240	-->	51.69789032230095	84	75.02776525359651
5242	-->	51.71301368003461	64	55.875193999604754
5244	-->	51.72813589562941	139	123.94636376019508
5246	-->	51.743256969646055	57	58.219038120894616
rate Hardy-Littlewood				
5248	-->	51.758376902644834	64	57.33492137970543
5250	-->	51.77349569518545	198	178.93580600432412
5252	-->	51.78861334782714	68	61.63452245898278
5254	-->	51.803729861128716	62	58.381792290127855
5256	-->	51.81884523564841	124	113.50669145885902
5258	-->	51.83395947194401	61	62.46355273290961
rate Hardy-Littlewood				
5260	-->	51.84907257057282	77	74.9485637607969
5262	-->	51.86418453209164	116	112.15354674314264
5264	-->	51.87929535705681	70	68.72846617406297
5266	-->	51.89440504602411	59	56.06582334851272
5268	-->	51.9095135995489	118	112.37737197062052
5270	-->	51.92462101818606	85	82.50303207582738
5272	-->	51.93972730248993	62	56.177532834026465
5274	-->	51.95483245301443	120	112.60168702694345
5276	-->	51.96993647031295	57	56.166521861861554
5278	-->	51.985039354938394	84	76.21400453122138
5280	-->	52.00014110744325	175	166.38711727808047
5282	-->	52.01524172837941	60	59.90985941067885
5284	-->	52.03034121829839	67	56.22999067599913
5286	-->	52.04543957775115	115	112.53440071765039
5288	-->	52.060536807288216	53	56.30443700700789
rate Hardy-Littlewood				
5290	-->	52.07563290745966	87	78.55046625274227
5292	-->	52.09072787881495	142	135.00205740863248
5294	-->	52.10582172190325	63	56.2879932210612
5296	-->	52.12091443727311	63	56.453653880507716
5298	-->	52.13600602547266	112	112.72469133989094
rate Hardy-Littlewood				
5300	-->	52.15109648704952	82	76.55800547525098
5302	-->	52.16618582255089	72	62.85094579055027
5304	-->	52.18127403252344	140	131.13254857422103
5306	-->	52.196361117513405	77	67.81364819424888
5308	-->	52.21144707806649	64	56.42027601808284
5310	-->	52.22653191472802	163	153.02117564020327
5312	-->	52.241615628042716	55	57.10584431943016
rate Hardy-Littlewood				
5314	-->	52.256698218554966	62	56.44653455567964
5316	-->	52.2717796868086	128	113.1382315515692
5318	-->	52.28686003334697	58	56.478227743840336
5320	-->	52.30193925871302	107	95.6716112695646
5322	-->	52.317017363449146	122	113.1050011907687
5324	-->	52.33209434809734	69	62.78279536193457
5326	-->	52.34717021319912	64	56.54159908076162
5328	-->	52.362244959295474	126	116.30304111750297
5330	-->	52.377318586927004	86	84.36668124814085
5332	-->	52.392391096633766	64	59.94577722457805
5334	-->	52.40746248895542	138	136.8873311501657
5336	-->	52.422532764431104	69	61.490874527596326
5338	-->	52.43760192359953	69	60.779361095145106

5340	-->	52.452669966998926	166	152.75242211149185
5342	-->	52.46773689516705	65	56.66828173405507
5344	-->	52.48280270864122	63	57.00630084560631
5346	-->	52.49786740795827	138	125.95271085367735
5348	-->	52.51293099365454	70	68.39342434414536
5350	-->	52.52799346626599	83	76.3339679397131
5352	-->	52.54305482632807	114	113.96576706646697
5354	-->	52.55811507437575	59	56.763241359558805
5356	-->	52.57317421094358	73	62.53070465181486
5358	-->	52.5882322365656	122	122.89831185425275
rate Hardy-Littlewood				
5360	-->	52.60328915177546	82	76.8842440561665
5362	-->	52.61834495710628	77	68.3452971753848
5364	-->	52.633399653090805	119	114.41535327704246
5366	-->	52.648453240261226	61	56.85815624667871
5368	-->	52.663505719149335	70	64.2404216408146
5370	-->	52.67855709028644	166	152.506347170305
5372	-->	52.69360735420346	60	61.46470564749837
rate Hardy-Littlewood				
5374	-->	52.708656511430746	64	56.92140804774118
5376	-->	52.723704562498305	143	136.59846725008592
5378	-->	52.73875150793561	57	56.95302652558004
5380	-->	52.753797348271725	81	76.2145801349761
5382	-->	52.76884208403524	132	130.20218555492568
5384	-->	52.783885715754316	59	57.06418002981786
5386	-->	52.79892824395661	68	57.016248659811616
5388	-->	52.813969669169396	124	114.2768286498566
5390	-->	52.82900999191947	102	101.38075810493004
5392	-->	52.84404921273313	68	57.21275446852347
5394	-->	52.85908733213632	132	122.42389398469396
5396	-->	52.87412435065443	64	61.30719448585304
5398	-->	52.889160268812454	68	57.111044879112484
5400	-->	52.904195087134966	156	152.28179737055024
5402	-->	52.91922880614608	63	59.58102608412058
5404	-->	52.934261426369375	75	68.92369489577804
5406	-->	52.94929294832813	128	124.31723944397704
5408	-->	52.96432337254504	63	62.36601811033964
5410	-->	52.97935269954246	86	76.38764639653418
5412	-->	52.994380929842215	141	130.37135162765665
5414	-->	53.00940806396578	58	57.23737100456024
5416	-->	53.024434102434114	61	57.316794370377046
5418	-->	53.03945904576771	139	140.74579159945338
rate Hardy-Littlewood				
5420	-->	53.054482894486725	75	76.6352703323853
rate Hardy-Littlewood				
5422	-->	53.06950564911075	67	57.300504652272664
5424	-->	53.08452731015904	126	115.62263069162452
5426	-->	53.09954787815034	63	57.332064138854726
5428	-->	53.114567353603015	65	61.11017055715706
5430	-->	53.12958573703489	169	153.76755097344991
5432	-->	53.14460302896344	70	69.55443738359243
5434	-->	53.1596192299057	87	73.6351266984636
5436	-->	53.174634340378205	123	115.54995548317301
5438	-->	53.189648360897095	54	57.42671330576129
rate Hardy-Littlewood				
5440	-->	53.204661291978084	93	81.66593077174919
5442	-->	53.21967313413642	121	115.00119072467595
5444	-->	53.23468388788695	63	57.49517491545844
5446	-->	53.24969355374399	75	69.1405989774408
5448	-->	53.26470213222156	127	115.47984408335516
5450	-->	53.27970962383317	85	77.38344961102884
5452	-->	53.29471602909188	68	60.97165927566054
5454	-->	53.309721348510344	135	116.22572011572858
5456	-->	53.3247255826008	74	66.14654516510012

5458	-->	53.33972873187497	64	57.58436455444303
5460	-->	53.35473079684429	218	201.0031115386749
5462	-->	53.36973177801964	55	57.61588024157191
rate Hardy-Littlewood				
5464	-->	53.38473167591151	67	57.69513047454842
5466	-->	53.39973049102995	129	115.37937108424683
5468	-->	53.414728223884595	52	57.684274451855835
rate denise				
rate Hardy-Littlewood				
5470	-->	53.42972487498465	82	77.01812577211905
5472	-->	53.44472044483888	127	122.13223061121904
5474	-->	53.45971493395566	84	77.35861126953994
5476	-->	53.47470834284285	63	59.35377189156706
5478	-->	53.489700672007984	144	129.85201791505926
5480	-->	53.5046919219581	80	77.55230935001482
5482	-->	53.51968209319984	65	57.773386118211064
5484	-->	53.53467118623939	118	115.79001915971814
5486	-->	53.54965920158256	65	63.33847527735276
5488	-->	53.5646461397347	80	69.3594420253014
5490	-->	53.57963200120077	164	156.7871926915355
5492	-->	53.59461678648523	61	57.8732000177861
5494	-->	53.60960049609219	67	60.24277783498664
5496	-->	53.62458313052531	126	116.23479560757373
5498	-->	53.63956469028786	60	57.8993040240856
5500	-->	53.65454517588265	98	85.76884545031578
5502	-->	53.66952458781207	149	140.06068367107062
5504	-->	53.684502926578084	62	59.338255218318466
5506	-->	53.69948019268227	68	57.962234145668496
5508	-->	53.71445638662576	127	123.64139468272674
5510	-->	53.7294315089093	88	84.87496746735498
5512	-->	53.74440556003315	70	64.50042526902118
5514	-->	53.75937854049723	130	116.1346903338325
5516	-->	53.77435045080099	71	69.98082622030282
5518	-->	53.78932129144346	73	60.72684656697498
5520	-->	53.80429106292329	172	162.17496931750972
5522	-->	53.81925976573873	66	64.7779903139672
5524	-->	53.834227400387526	65	58.1248318573717
5526	-->	53.84919396736708	134	116.57783956468468
5528	-->	53.86415946717438	54	58.19849827484698
rate Hardy-Littlewood				
5530	-->	53.87912390030596	103	94.21568692761741
5532	-->	53.89408726725798	128	116.54453381056123
5534	-->	53.90904956852616	65	58.18233882518234
5536	-->	53.92401080460582	65	58.51723521934799
5538	-->	53.93897097599186	138	128.80604774479826
5540	-->	53.95393008317878	79	77.8934822867807
5542	-->	53.96888812666066	70	62.49151630107784
5544	-->	53.98384510693117	169	155.30630878153795
5546	-->	53.99880102448356	72	60.59488225804635
5548	-->	54.01375587981071	70	62.56800473568645
5550	-->	54.02870967340505	173	159.87288302918319
5552	-->	54.04366240575859	63	58.47168714909835
5554	-->	54.05861407736298	67	58.33941351542854
5556	-->	54.07356468870944	129	116.92127782631631
5558	-->	54.08851424028875	70	70.19702810922901
rate Hardy-Littlewood				
5560	-->	54.103462732591375	89	78.38870461522696
5562	-->	54.11841016610723	126	117.9184678018163
5564	-->	54.13335654132598	68	64.31243047741529
5566	-->	54.148301858736765	75	67.99349944695143
5568	-->	54.163246118828404	127	121.18460771672679
5570	-->	54.17818932208924	81	78.06572274750611
5572	-->	54.19313146900725	79	70.50771674277401
5574	-->	54.20807256007003	133	117.07690681888407

5576	-->	54.22301259576471	69	63.99022409224735
5578	-->	54.2379515765781	71	58.527746795052416
5580	-->	54.252889502996524	177	161.44122132547662
5582	-->	54.26782637550593	60	58.55911915450292
5584	-->	54.282762194591925	66	58.72255952442498
5586	-->	54.29769696073964	163	148.8354395484864
5588	-->	54.31263067443384	65	65.61540791021014
rate Hardy-Littlewood				
5590	-->	54.32756333615889	93	87.3165932963861
5592	-->	54.342494946398745	124	117.74060264834971
5594	-->	54.35742550563698	67	58.65320799996621
5596	-->	54.37235501435673	63	58.68989103947124
5598	-->	54.38728347304079	124	117.7068751950974
5600	-->	54.4022108821715	96	93.88682353379805
5602	-->	54.41713724223087	64	58.71591041328945
5604	-->	54.432062553700455	132	117.67374879298332
5606	-->	54.446986817061415	64	58.74725458794374
5608	-->	54.46191003279456	67	58.82599776167942
5610	-->	54.4768322013803	198	185.7031321968603
5612	-->	54.491753323298596	64	62.615623928330756
5614	-->	54.50667339902904	79	70.72357324548037
5616	-->	54.52159242905088	136	128.30102792812465
5618	-->	54.53651041384291	56	59.973643469191494
rate Hardy-Littlewood				
5620	-->	54.55142735388353	90	78.72913464727877
5622	-->	54.56634324965083	120	117.8291526672677
5624	-->	54.5812581016224	64	64.11093779569977
rate Hardy-Littlewood				
5626	-->	54.59617191027549	67	61.70658520488934
5628	-->	54.611084676086975	151	143.53140265979698
5630	-->	54.62599639953332	83	78.6923925651752
5632	-->	54.640907081090596	74	65.47770676759338
5634	-->	54.655816721234466	125	118.27025760138217
5636	-->	54.67072532044027	67	59.00315465778562
5638	-->	54.68563287918291	64	58.99783978956803
5640	-->	54.70053939793691	169	160.80934130444422
5642	-->	54.71544487717636	79	79.91080430473824
rate Hardy-Littlewood				
5644	-->	54.73034931737508	73	63.736053895705936
5646	-->	54.74525271900639	130	118.2047716607985
5648	-->	54.760155082543235	60	59.22340817504975
5650	-->	54.77505640845826	86	79.47063605142756
5652	-->	54.78995669722365	125	118.9353142313726
5654	-->	54.80485594931124	73	65.92652505638858
5656	-->	54.81975416519243	81	71.65787136749357
5658	-->	54.83465134533829	140	127.07541037551401
5660	-->	54.84954749021951	86	79.14603160495646
5662	-->	54.86444260030631	70	63.07110050813545
5664	-->	54.879336676068675	131	120.43712082641747
5666	-->	54.89422971797607	65	59.21685776128893
5668	-->	54.909121726497645	74	65.19814307079584
5670	-->	54.92401270210215	204	189.52710832925783
5672	-->	54.938902645258004	63	59.326651075582575
5674	-->	54.953791556433146	67	59.27939270036994
5676	-->	54.96867943609523	147	134.93296280262214
5678	-->	54.983566284711465	64	63.62569210555151
5680	-->	54.99845210274873	89	80.21984432180032
5682	-->	55.013336890673514	128	118.76757544696582
5684	-->	55.02822064895192	78	73.84115482063041
5686	-->	55.04310337804963	64	59.3731605492699
5688	-->	55.05798507843202	127	120.27781329010135
5690	-->	55.07286575056406	84	79.31767001752281
5692	-->	55.08774539491036	65	59.440944123230416
5694	-->	55.10262401193508	145	131.45802156402624

5696	-->	55.11750160210213	63	60.113494634151266
5698	-->	55.13237816587495	89	81.52595218344729
5700	-->	55.14725370371663	186	167.89164907298522
5702	-->	55.16212821608986	62	59.49812001319868
5704	-->	55.17700170345706	72	64.47502079855931
5706	-->	55.19187416628012	132	119.39478274246896
5708	-->	55.20674560502069	64	59.56586119734647
5710	-->	55.22161602013998	87	79.52578971905926
5712	-->	55.23648541209887	168	152.4616067446058
5714	-->	55.251353781357764	66	59.59179150686982
5716	-->	55.266221128376884	61	59.628292297151575
5718	-->	55.281087453615875	127	119.32963506330756
5720	-->	55.295952757534174	110	96.35192222437858
5722	-->	55.31081704059073	66	59.65421632507547
5724	-->	55.325680303244205	130	121.63710183111063
5726	-->	55.34054254595287	77	71.773396124492
5728	-->	55.35540376917459	69	60.017346462655574
5730	-->	55.37026397336691	174	160.03099407113763
5732	-->	55.38512315898701	58	59.75309978842177
rate Hardy-Littlewood				
5734	-->	55.39998132649164	73	62.08905590692133
5736	-->	55.41483847633723	127	119.9892979452069
5738	-->	55.42969460897985	61	63.69800756284269
rate Hardy-Littlewood				
5740	-->	55.44454972487518	103	98.09027925251219
5742	-->	55.459403824478585	143	137.78617681322424
5744	-->	55.47425690824498	71	59.972473555176705
5746	-->	55.489108976628955	79	69.60936186936533
5748	-->	55.5039600300848	132	119.92315906834861
5750	-->	55.518810069066326	84	83.60241274751061
5752	-->	55.53365909402706	76	59.950813537921135
5754	-->	55.54850710542014	162	144.78355631396778
5756	-->	55.563354103698366	71	59.940174749758654
5758	-->	55.578200089314116	69	59.93490280537289
5760	-->	55.593045062719455	172	159.8124329596001
5762	-->	55.6078890243661	64	62.35205322480876
5764	-->	55.62273197470536	76	67.13960120501383
5766	-->	55.63757391418823	136	124.08912375762348
5768	-->	55.6524148432653	73	72.70316416997525
5770	-->	55.667254762386825	87	80.14924017227035
5772	-->	55.68209367200271	144	134.70129636754805
5774	-->	55.69693157256248	61	60.059534598764124
5776	-->	55.711768464515316	63	63.58690552539656
rate Hardy-Littlewood				
5778	-->	55.72660434831002	128	121.28393658036865
5780	-->	55.74143922439508	87	85.45485896566234
5782	-->	55.756273093218574	78	73.3865086864565
5784	-->	55.77110595522825	132	120.73625021794497
5786	-->	55.7859378108715	75	67.06950306857662
5788	-->	55.80076866059537	65	60.189355026136816
5790	-->	55.8155985048465	167	161.27543793477003
5792	-->	55.83042734407126	61	60.515059624771304
5794	-->	55.845255178715604	64	60.21522298893232
5796	-->	55.860082009225124	166	151.38513005380955
5798	-->	55.87490783604508	70	65.99789682813658
5800	-->	55.8897326596204	98	83.29636411963386
5802	-->	55.90455648039562	130	120.63824748174251
5804	-->	55.91937929881496	68	60.31383731781562
5806	-->	55.93420111532223	63	60.30858216292189
5808	-->	55.94902193036095	141	134.0074626166061
5810	-->	55.96384174437427	97	97.701748423035
rate Hardy-Littlewood				
5812	-->	55.978660557804965	67	60.37605161474906
5814	-->	55.99347837109549	147	136.32005579826986

5816	-->	56.008295184687924	63	60.44884084165352
5818	-->	56.023110999024006	65	60.40190107444569
5820	-->	56.03792581454515	171	162.75316189496763
5822	-->	56.05273963169238	69	62.85925197684472
5824	-->	56.0675524509064	87	79.1054573307278
5826	-->	56.08236427262755	129	121.01140922964825
5828	-->	56.09717509729582	70	63.93352212120574
5830	-->	56.111984925350846	101	91.34843345242706
5832	-->	56.12679375723197	135	120.97992799839338
5834	-->	56.141601593378134	65	60.526263845729396
5836	-->	56.15640843422792	67	60.56258749332572
5838	-->	56.17121428021963	150	146.3483119348874
5840	-->	56.186019131791156	87	81.87330292547395
5842	-->	56.20082298938007	70	63.95945855141584
5844	-->	56.215625853423624	131	121.41624119003752
5846	-->	56.23042772435865	76	63.13961829337659
5848	-->	56.245228602621744	74	66.23218757276688
5850	-->	56.260028488649084	191	176.37763828761373
5852	-->	56.2748273828765	91	85.61695963620716
5854	-->	56.289625285739525	68	60.681617310662055
5856	-->	56.30442219767331	131	123.40964660585955
5858	-->	56.319218119112705	66	63.575544563821474
5860	-->	56.334013050492146	89	81.22144674095354
5862	-->	56.348806992245834	128	121.57055207080276
5864	-->	56.36359994480751	62	60.821612281748365
5866	-->	56.378391908610666	80	73.07968957398698
5868	-->	56.39318288408844	131	122.29404662109587
5870	-->	56.40797287167358	87	81.18533598794811
5872	-->	56.42276187179852	73	60.96719507136769
5874	-->	56.437549884895375	157	136.7003893467811
5876	-->	56.452336911395925	74	66.9596640820333
5878	-->	56.46712295173156	69	60.8678954536784
5880	-->	56.481908006333406	216	194.7606264865155
5882	-->	56.49669207563217	67	65.31650709022544
5884	-->	56.511475160058296	74	60.935180543711404
5886	-->	56.526257260041845	140	122.95697555671276
5888	-->	56.541038376012544	74	63.825934755361224
5890	-->	56.55581850839984	98	88.99998599101148
5892	-->	56.57059765763273	127	122.16086663035495
5894	-->	56.58537582414002	79	73.34016679158478
5896	-->	56.60015300835007	74	68.8056187575532
5898	-->	56.614929210690924	132	122.12898026820993
5900	-->	56.629704431590326	89	82.78440144006764
5902	-->	56.644478671475675	76	66.8777214805799
5904	-->	56.65925193077406	134	125.22835575816148
5906	-->	56.67402420991216	71	61.08501969733136
5908	-->	56.68879550931641	87	73.64649280862375
5910	-->	56.703565829412845	182	163.75637349401612
5912	-->	56.71833517062719	64	61.1937492569181
5914	-->	56.73310353338488	74	61.14701575884095
5916	-->	56.74787091811096	153	135.26685913509291
5918	-->	56.76263732523019	71	68.20708740852022
5920	-->	56.77740275516694	96	83.89415433761944
5922	-->	56.792167208345305	161	150.11533435818137
5924	-->	56.806930685189045	66	61.24519119418662
5926	-->	56.82169318612157	65	61.2399771027246
5928	-->	56.836454711565956	146	141.4621964804506
5930	-->	56.85121526194501	87	81.805229559248
5932	-->	56.86597483768111	70	61.307140943361404
5934	-->	56.880733439196376	139	131.53051211885804
5936	-->	56.89549106691262	79	74.99837459403123
5938	-->	56.910247721251245	73	61.332899240423075
5940	-->	56.92500340263341	202	181.71176142409442
5942	-->	56.93975811147989	67	61.363864591638205

5944	-->	56.95451184821115	73	61.441491393311416
5946	-->	56.96926461324738	133	122.87244929382163
5948	-->	56.984016407008355	55	61.430988305342744
rate denise				
rate Hardy-Littlewood				
5950	-->	56.998767229913604	107	104.79808513786193
5952	-->	57.01351708238224	133	127.07711681803431
5954	-->	57.028265964833196	73	67.31642985932346
5956	-->	57.04301387768493	75	61.49288597885889
5958	-->	57.05776082135567	138	123.30773042228604
5960	-->	57.07250679626328	81	82.5343437329916
rate Hardy-Littlewood				
5962	-->	57.087251802825335	77	68.58511056591337
5964	-->	57.10199584145903	167	149.77188904853108
5966	-->	57.11673891258133	75	65.56858529798589
5968	-->	57.131481016608774	69	61.71028295905942
5970	-->	57.146222153957616	177	164.9929344943902
5972	-->	57.16096232504386	63	61.61662946200904
5974	-->	57.17570153028308	73	64.50433410944513
5976	-->	57.190439770090606	129	124.73366928523332
5978	-->	57.205177044881424	75	75.19939674575043
rate Hardy-Littlewood				
5980	-->	57.21991335507017	99	93.92333898933946
5982	-->	57.234648701071244	132	123.42923184663795
5984	-->	57.24938308329862	78	73.0881358538457
5986	-->	57.26411650216605	72	64.15626406379667
5988	-->	57.27884895808685	126	123.64635332398116
5990	-->	57.2935804514742	87	82.42382138260885
5992	-->	57.30831098274079	81	74.78142338185697
5994	-->	57.32304055229905	140	127.01911749811093
5996	-->	57.33776916056115	63	61.80211547742393
5998	-->	57.35249680793886	72	61.796925421324374
6000	-->	57.367223494843664	178	164.77804073947007
6002	-->	57.38194922168675	62	61.82782605314888
6004	-->	57.39667398887897	73	66.30941539929938
6006	-->	57.41139779683091	195	179.89270272975256
6008	-->	57.42612064595271	61	61.93614637784214
rate Hardy-Littlewood				
6010	-->	57.440842536654365	92	82.62973230684216
6012	-->	57.45556346934544	137	124.51903106505937
6014	-->	57.47028344443523	69	64.7084288431176
6016	-->	57.4850024623327	69	63.29124389864068
6018	-->	57.49972052344653	146	134.4368966861494
6020	-->	57.514437628185014	111	101.53138529454024
6022	-->	57.52915377695628	66	61.98226501563463
6024	-->	57.54386897016799	144	124.45203340428354
6026	-->	57.55858320822755	68	65.44802389292401
6028	-->	57.5732964915421	75	69.40811926679548
6030	-->	57.58800882051838	173	167.9403519574969
6032	-->	57.602720195562924	74	70.18537799738506
6034	-->	57.61743061708188	84	74.63873282392507
6036	-->	57.632140085481105	126	124.38724065359916
6038	-->	57.646848601166155	65	62.10573937111231
6040	-->	57.66155616454226	91	83.35649951782199
6042	-->	57.67626277601437	151	134.11902390579127
6044	-->	57.69096843598709	61	62.17262529991259
rate Hardy-Littlewood				
6046	-->	57.70567314486475	65	62.167451024839885
6048	-->	57.720376903051346	161	149.18953526828682
6050	-->	57.7350797109506	99	92.11515890731998
6052	-->	57.749781568965915	72	67.10188904203407
6054	-->	57.7644824775003	140	124.54071405854683
6056	-->	57.77918243695663	71	62.306419499477805
6058	-->	57.79388144773734	77	68.19148363825883

6060	-->	57.8085795102446	177	167.68982050081084
6062	-->	57.82327662488028	76	74.89769277224445
6064	-->	57.83797279204592	68	62.45089790219015
6066	-->	57.852668012142765	132	124.97414949862315
6068	-->	57.867362285571815	59	65.74050216922912
rate Hardy-Littlewood				
6070	-->	57.88205561273368	98	83.24661464202586
6072	-->	57.89674799402871	147	145.14726343581972
6074	-->	57.91143942985693	68	62.38330830986364
6076	-->	57.926129920618074	84	77.43497287301798
6078	-->	57.94081946671159	138	124.91059680583415
6080	-->	57.95550806853661	93	88.10681465734271
6082	-->	57.97019572649193	70	62.44494379586507
6084	-->	57.98488244097612	153	136.23231408560494
6086	-->	57.99956821238738	72	66.99527662092106
6088	-->	58.01425304112361	67	62.552929803192335
6090	-->	58.02893692758248	222	207.3610413484484
6092	-->	58.04361987216128	64	62.54252412993574
6094	-->	58.05830187525704	79	69.71574267760214
6096	-->	58.072982937266474	140	126.06498793796239
6098	-->	58.087663058586	61	62.568164256759935
rate Hardy-Littlewood				
6100	-->	58.102342239611765	100	84.83123546739618
6102	-->	58.11702048073957	132	126.28440860445068
6104	-->	58.13169778236496	84	75.81458534394997
6106	-->	58.14637414488314	68	65.0657940968199
6108	-->	58.16104956868909	142	125.49628737345893
6110	-->	58.17572405417737	99	93.13748129199746
6112	-->	58.19039760174234	68	62.98692132298424
6114	-->	58.20507021177806	132	125.46485318977241
6116	-->	58.219741884678264	73	70.15973108715302
6118	-->	58.23441262083639	95	83.46160504410594
6120	-->	58.24908242064558	192	178.39494722731925
6122	-->	58.26375128449869	64	62.75286910005799
6124	-->	58.278419212788286	72	62.78878699652064
6126	-->	58.29308620590664	141	125.64945469289782
6128	-->	58.307752264245686	61	62.94329235213041
rate Hardy-Littlewood				
6130	-->	58.322417388197124	91	83.86223399556499
6132	-->	58.337081578152336	162	152.86541700869424
6134	-->	58.3517448345024	71	62.845165098389685
6136	-->	58.366407157638115	76	69.75546036028938
6138	-->	58.38106854794998	152	144.49523675442862
6140	-->	58.395729005828166	85	84.10258718059569
6142	-->	58.41038853166266	69	65.48148699599199
6144	-->	58.42504712584304	145	125.80312136362583
6146	-->	58.43970478875861	81	75.67309301797165
6148	-->	58.454361520798486	75	66.54280628123932
6150	-->	58.469017322351334	190	172.16460585711945
6152	-->	58.483672193805674	60	63.04514641809322
rate Hardy-Littlewood				
6154	-->	58.498326135549625	76	67.55228000474236
6156	-->	58.512979147971095	142	133.3986310675642
6158	-->	58.527631231457654	66	63.029644725673705
6160	-->	58.5422823863966	123	112.04361862322493
6162	-->	58.556932613174936	154	139.32786041673307
6164	-->	58.5715819121794	77	67.07417604379789
6166	-->	58.58623028379641	71	63.091104743174
6168	-->	58.6008777284121	138	126.66678811194821
6170	-->	58.61552424641234	81	84.27195315242392
rate Hardy-Littlewood				
6172	-->	58.6301698381827	69	63.157681319663396
6174	-->	58.644814504108425	163	151.51700160655295
6176	-->	58.65945824457451	69	63.47805883101404

6178	-->	58.67410105996569	71	63.1832637483939
6180	-->	58.68874295066636	180	170.14316550368983
6182	-->	58.70338391706066	72	70.46668624916055
6184	-->	58.71802395953244	73	63.290856345437305
6186	-->	58.73266307846522	132	126.57134109586252
6188	-->	58.74730127424234	84	88.30545253990476
rate Hardy-Littlewood				
6190	-->	58.76193854724675	91	84.47660635713864
6192	-->	58.77657489786115	136	129.6269280335617
6194	-->	58.79121032646797	69	67.42452224191634
6196	-->	58.805844833449356	66	63.34190513280745
6198	-->	58.82047841918715	119	126.75549547263228
rate Hardy-Littlewood				
6200	-->	58.83511108406292	87	87.35404518972909
rate Hardy-Littlewood				
6202	-->	58.849742828457934	86	76.18880803768536
6204	-->	58.86437365275322	161	143.93428355282367
6206	-->	58.87900355732952	75	66.3509950365602
6208	-->	58.8936325425672	68	64.06035817755803
6210	-->	58.908260608846504	195	177.1409415619347
6212	-->	58.92288775654721	61	63.46463879513579
rate Hardy-Littlewood				
6214	-->	58.93751398604901	83	69.49828635411257
6216	-->	58.95213929773117	163	156.64178398196367
6218	-->	58.96676369197268	72	63.49019271021957
6220	-->	58.981387169152356	90	84.92074058640485
6222	-->	58.99600972964864	148	137.7636628103078
6224	-->	59.01063137383971	74	63.67989704109805
6226	-->	59.02525210210351	79	70.84133021422488
6228	-->	59.039871914817645	144	127.83611535856885
6230	-->	59.054490812359504	109	102.86778937921667
6232	-->	59.0691087951061	77	69.0430093551135
6234	-->	59.08372586343425	135	127.30751614837362
6236	-->	59.098342017720526	77	63.64861651796474
6238	-->	59.1129572583411	74	63.64350351020288
6240	-->	59.12757158567196	198	185.12994608585643
6242	-->	59.1421850000888	66	63.67415343039124
6244	-->	59.15679750196699	89	76.74859853987084
6246	-->	59.171409091681724	140	127.73797320139863
6248	-->	59.18601976960782	75	71.80322387422763
6250	-->	59.20062953611985	95	84.95338558449762
6252	-->	59.2152383915921	146	127.70630941630499
6254	-->	59.229846336398666	68	66.13586905632768
6256	-->	59.24445337091325	77	71.25038631091539
6258	-->	59.25905949550931	159	154.1044069281288
6260	-->	59.27366471056011	98	85.32900237089201
6262	-->	59.28826901643854	73	66.67392883666997
6264	-->	59.30287241351726	147	132.37210475975218
6266	-->	59.31747490216867	72	69.93237983852956
6268	-->	59.33207648276485	73	63.89369211912524
6270	-->	59.34667715567761	218	200.37083421698105
6272	-->	59.3612769212786	78	76.6602171012765
6274	-->	59.37587577993901	71	63.91920648309416
6276	-->	59.39047373202992	138	128.07361756397253
6278	-->	59.405070777922084	69	66.4110713540909
6280	-->	59.41966691798594	101	85.80972568934452
6282	-->	59.43426215259168	138	128.28875243130057
6284	-->	59.448856482109264	68	64.0161326785914
6286	-->	59.463449906908345	80	76.96058121748892
6288	-->	59.47804242735832	145	129.00426972664945
6290	-->	59.49263404382827	108	93.65396676466946
6292	-->	59.50722475668709	82	77.62008131186718
6294	-->	59.521814566303334	143	128.22608676287533
6296	-->	59.53640347304532	69	64.14877976017084

6298	-->	59.5509914772811	77	66.51431057582607
6300	-->	59.565578579378425	216	205.11283187607577
6302	-->	59.580164779704816	69	67.66358467211906
6304	-->	59.594750078627484	82	64.45721369493998
6306	-->	59.609334476513396	137	128.40958294131065
6308	-->	59.62391797372929	70	68.77167074899097
6310	-->	59.63850057064158	101	85.70167228788604
6312	-->	59.65308226761641	138	128.87091189214948
6314	-->	59.66766306501971	96	87.8014478810164
6316	-->	59.68224296321708	69	64.26082038435712
6318	-->	59.696821962573914	150	140.14993111805853
6320	-->	59.71140006345528	86	86.78012808833704
rate Hardy-Littlewood				
6322	-->	59.72597726622603	77	67.26903953952336
6324	-->	59.74055357125076	156	141.86205147525536
6326	-->	59.755128978893715	65	64.31686629555404
6328	-->	59.769703489518946	93	77.86943285576751
6330	-->	59.78427710349027	185	172.35966709090079
6332	-->	59.798849821171146	70	64.38306795452083
6334	-->	59.81342164292485	75	64.37798451719833
6336	-->	59.827992569114336	150	143.05095333454287
6338	-->	59.84256260010234	61	64.40853763326812
rate Hardy-Littlewood				
6340	-->	59.857131736251304	98	86.14391841902085
6342	-->	59.871699977923434	161	155.642639121134
6344	-->	59.88626732548065	76	71.48305733942323
6346	-->	59.90083377928464	81	68.65402145762373
6348	-->	59.915399339696755	142	135.06864372034508
6350	-->	59.92996400707816	95	86.66092058553821
6352	-->	59.94452778178975	72	64.6584010892046
6354	-->	59.95909066419215	140	129.38836453132916
6356	-->	59.973652654645704	80	77.77492964431768
6358	-->	59.98821375351048	88	76.49295210937083
6360	-->	60.00277396114637	194	175.52534074516248
6362	-->	60.017333277912904	71	64.59177260900977
6364	-->	60.031891704169425	80	68.05235460378444
6366	-->	60.046449240274974	144	129.32598393328524
6368	-->	60.06100588658833	61	64.94525821551568
rate Hardy-Littlewood				
6370	-->	60.07556164346809	130	112.81311462131802
6372	-->	60.09011651127248	140	131.56389159280081
6374	-->	60.104670490359524	73	64.68333642284325
6376	-->	60.119223581087	72	64.75964914931667
6378	-->	60.133775783812425	138	129.5090493853496
6380	-->	60.148327098893	102	99.41545159245393
6382	-->	60.16287752668573	78	64.7443591455095
6384	-->	60.1774270675474	190	164.5140313576344
6386	-->	60.191975721834424	72	67.65073041349541
6388	-->	60.206523489903	75	64.81043254244338
6390	-->	60.22107037210913	191	175.26397459156684
6392	-->	60.235616368808536	77	70.6563567193452
6394	-->	60.25016148035663	78	68.39766832381655
6396	-->	60.2647057071086	164	145.07597394224507
6398	-->	60.279249049419406	80	77.98631108243312
6400	-->	60.29379150764374	98	86.4817608115484
6402	-->	60.308333082135995	156	145.68772829372477
6404	-->	60.32287377325033	77	64.93239416350804
6406	-->	60.33741358134072	69	64.92733246132602
6408	-->	60.35195250676079	140	131.3370631954678
6410	-->	60.36649054986397	96	86.71888524557316
6412	-->	60.3810277110034	92	78.28670017537682
6414	-->	60.39556399053198	146	130.05781938683893
6416	-->	60.41009938880236	71	65.14612552004913
6418	-->	60.42463390616695	71	65.01876592342464

6420	-->	60.43916754297792	184	175.02110319707637
6422	-->	60.45370029958709	72	75.11367810808841
rate Hardy-Littlewood				
6424	-->	60.46823217634617	76	73.28924664849227
6426	-->	60.48276317360651	187	166.55216766621513
6428	-->	60.497293291719245	76	65.11521857566964
6430	-->	60.51182253103527	94	86.9219334065118
6432	-->	60.52635089190524	138	132.21350876612857
6434	-->	60.5408783746795	74	65.14062223345594
6436	-->	60.55540497970821	74	65.17612867620065
6438	-->	60.56993070734126	150	138.98842553997414
6440	-->	60.58445555792826	111	109.2307152425875
6442	-->	60.59897953181859	67	65.20152688574511
6444	-->	60.6135026293614	148	131.12969013974407
6446	-->	60.62802485090558	74	72.70646981015027
6448	-->	60.64254619679973	79	73.61035207928654
6450	-->	60.65706666739231	183	178.22252196240098
6452	-->	60.67158626303137	69	65.29790197359195
6454	-->	60.686104984064876	91	78.49778534289747
6456	-->	60.70062283084039	138	131.0647162621626
6458	-->	60.7151398037054	73	65.3232893110141
6460	-->	60.72965590300697	107	98.36163060379116
6462	-->	60.74417112909206	145	131.03298757022918
6464	-->	60.75868548230729	66	66.00879024416571
rate Hardy-Littlewood				
6466	-->	60.77319896299908	76	67.77514812195204
6468	-->	60.78771157151358	188	174.34434791073062
6470	-->	60.8022233081967	95	87.32763953069099
6472	-->	60.81673417339414	69	65.4906074323266
6474	-->	60.8312441674513	163	144.5072258437449
6476	-->	60.84575329071335	72	65.4804450370935
6478	-->	60.86026154352523	72	68.00538572713332
6480	-->	60.874768926231624	193	174.58771068692602
6482	-->	60.88927543917699	82	78.75317936610884
6484	-->	60.90378108270552	72	65.54126165615996
6486	-->	60.91828585716114	149	140.32211858093154
6488	-->	60.93278976288759	72	65.61221552358114
6490	-->	60.947292800228325	109	98.80941155962995
6492	-->	60.96179496952657	138	131.3665065365858
6494	-->	60.976296271125314	76	70.31870492660559
6496	-->	60.99079670536728	94	81.62562310623746
6498	-->	61.005296272594954	151	138.93293137357034
6500	-->	61.019794973150624	105	95.45078640250378
6502	-->	61.03429280737624	78	65.65781514849887
6504	-->	61.04878977561364	140	131.79374271263003
6506	-->	61.0632858782043	64	65.68820335454876
rate Hardy-Littlewood				
6508	-->	61.077781115489515	67	65.72361865454157
6510	-->	61.092275487810355	241	217.48433033285752
6512	-->	61.106768995507586	74	75.10123853710485
rate Hardy-Littlewood				
6514	-->	61.12126163892179	75	65.74896819304685
6516	-->	61.13575341839328	148	132.22250016172998
6518	-->	61.15024433426215	66	65.77934483164194
6520	-->	61.1647343868682	94	88.243839247239
6522	-->	61.179223576551095	145	131.700332205357
6524	-->	61.19371190365014	84	79.30750317768106
6526	-->	61.20819936850452	79	72.09189769998528
6528	-->	61.222685971453046	152	140.4481859463035
6530	-->	61.23717171283441	97	87.93523100409678
6532	-->	61.251656592987004	82	70.00193115373456
6534	-->	61.26614061224898	166	146.4014112970516
6536	-->	61.28062377095832	77	71.47379734220998
6538	-->	61.29510606945266	83	79.26328756845514

6540	-->	61.30958750806948	190	177.44615156174135
6542	-->	61.32406808714601	69	65.96152392699868
6544	-->	61.338547807019204	75	66.11858444488219
6546	-->	61.35302666802583	141	132.06457018904584
6548	-->	61.36750467050237	69	66.02723893233774
6550	-->	61.38198181478509	101	88.68493043238594
6552	-->	61.39645810121006	184	172.84510354501754
6554	-->	61.41093353011308	71	69.09496286956042
6556	-->	61.42540810182967	81	73.88541498381996
6558	-->	61.43988181669516	137	132.24658587444912
6560	-->	61.454354675044705	99	90.36295343681104
6562	-->	61.46882667721312	78	70.8683893680652
6564	-->	61.483297823535004	137	132.45908965497793
6566	-->	61.49776811434481	85	80.56883389988562
6568	-->	61.512237549976625	70	66.21933235510241
6570	-->	61.526706130764396	202	178.89462498162484
6572	-->	61.54117385704182	70	69.792759874011
6574	-->	61.55564072914235	78	70.48705650060677
6576	-->	61.570106747399166	149	133.37918769291045
6578	-->	61.58457191214532	89	84.08176486762768
6580	-->	61.59903622371351	117	108.3221076741189
6582	-->	61.61349968243633	142	132.61041144788283
6584	-->	61.62796228864597	75	66.34057235939117
6586	-->	61.64242404267456	73	68.95214206197467
6588	-->	61.6568849448539	145	134.82748231063763
6590	-->	61.67134499551559	91	88.54167347473309
6592	-->	61.68580419499096	75	66.97712623171745
6594	-->	61.7002625436112	177	160.23267038341953
6596	-->	61.714720041707174	73	71.51917043014934
6598	-->	61.72917668960954	76	66.38607321841428
6600	-->	61.743632487648775	211	196.6847236342749
6602	-->	61.75808743615508	70	66.41636965117081
6604	-->	61.7725415354584	89	73.02838136465843
6606	-->	61.7869947858885	138	133.21705931899646
6608	-->	61.801447187774926	85	81.12879499081085
6610	-->	61.815898741446944	97	88.74356797582207
6612	-->	61.830349447233594	149	145.97767176970274
6614	-->	61.844799305463766	79	66.5072362437365
6616	-->	61.859248316466	70	66.58287054392997
6618	-->	61.873696480568704	142	133.15563774055656
6620	-->	61.88814379810006	91	88.97969432705172
6622	-->	61.90259026938791	105	90.89439760941374
6624	-->	61.91703589476001	149	139.46496209342018
6626	-->	61.93148067454377	73	66.59806884005215
6628	-->	61.94592460906648	71	66.63333521616683
6630	-->	61.960367698655126	218	206.6873676643213
6632	-->	61.97480994363648	66	66.7039291038374
rate Hardy-Littlewood				
6634	-->	61.98925134433711	72	69.5929193310869
6636	-->	62.00369190108334	176	162.0462426786325
6638	-->	62.0181316142013	69	66.68886751994552
6640	-->	62.03257048401684	92	90.00954365829152
6642	-->	62.0470085108556	142	136.81852328407533
6644	-->	62.06144569504306	86	74.62433952988962
6646	-->	62.07588203690436	69	66.74938117002087
6648	-->	62.09031753676449	138	133.97424513015724
6650	-->	62.10475219494824	114	113.09851858583228
6652	-->	62.11918601178014	70	66.81486938980686
6654	-->	62.133618987584406	151	133.70025339724606
6656	-->	62.14805112268522	80	72.878090680254
6658	-->	62.16248241740639	78	66.84012349903314
6660	-->	62.17691287207153	194	183.319299458328
6662	-->	62.19134248700408	69	66.8703634481095
6664	-->	62.205771262527215	89	85.58771496804059

6666	-->	62.220199198963876	165	150.12462725904342
6668	-->	62.23462629663687	68	66.93581719495704
6670	-->	62.24905255586862	108	96.9242239698553
6672	-->	62.26347797698149	147	134.82876646336277
6674	-->	62.27790256029753	76	69.42028446777594
6676	-->	62.29232630613856	75	66.996268674336
6678	-->	62.30674921482625	177	163.88250641482105
6680	-->	62.32117128668199	99	89.8564092013992
6682	-->	62.33559252202696	81	73.3791180533325
6684	-->	62.35001292118214	148	134.27460412688268
6686	-->	62.36443248446828	77	67.05172466021095
6688	-->	62.378851212205866	83	78.87855313307797
6690	-->	62.39326910471522	187	179.64086799851256
6692	-->	62.40768616231646	83	80.83201240067247
6694	-->	62.422102385329396	69	67.1121485691501
6696	-->	62.436517774073714	153	138.8424750514591
6698	-->	62.45093232886879	75	71.96428522932324
6700	-->	62.46534605003388	104	90.89371584540514
6702	-->	62.47975893788792	145	134.42546511106667
6704	-->	62.49417099274974	77	67.32868090629363
6706	-->	62.5085822149378	89	80.78826269321125
6708	-->	62.5229926047705	169	150.18933483547673
6710	-->	62.537402162565925	105	101.26238219237563
6712	-->	62.55181088864198	78	67.30832407831923
6714	-->	62.56621878331635	149	134.8486978150077
6716	-->	62.58062584690646	72	71.45337576518052
6718	-->	62.595032079729584	79	67.2933311338615
6720	-->	62.609437482102706	239	215.32283335813392
6722	-->	62.62384205434267	71	67.32351525531419
6724	-->	62.63824579676602	71	69.04468783580869
6726	-->	62.652648709689196	151	145.09049119069545
6728	-->	62.667050793428324	76	69.84315038357184
6730	-->	62.681452048299334	95	89.95231297777411
6732	-->	62.69585247461794	175	159.71301919831976
6734	-->	62.71025207269971	101	90.74560693779583
6736	-->	62.72465084285987	72	67.5699850155787
6738	-->	62.73904878541353	144	134.9686724880035
6740	-->	62.75344590067558	94	90.1874477325923
6742	-->	62.767842188960614	82	67.47438043684487
6744	-->	62.78223765058311	144	135.42253446291585
6746	-->	62.79663228585725	79	67.50454240791267
6748	-->	62.81102609509709	91	81.33843535090371
6750	-->	62.82541907861639	188	180.03915862604765
6752	-->	62.83981123672873	73	67.85287263014538
6754	-->	62.854202569747486	77	75.2958894659962
6756	-->	62.8685930779858	151	135.3606941465547
6758	-->	62.8829827617566	71	70.55848747883346
6760	-->	62.89737162137265	112	98.31283116934841
6762	-->	62.91175965714645	172	169.97865295245384
6764	-->	62.92614686939027	81	72.42084389601987
6766	-->	62.94053325841624	78	72.51052685650129
6768	-->	62.954918824536186	147	138.30741176006288
6770	-->	62.96930356806181	95	90.35424066439685
6772	-->	62.98368748930457	71	67.72052940648817
6774	-->	62.998070588575665	141	135.5112832776074
6776	-->	63.01245286618617	98	90.28085705623903
6778	-->	63.0268343224469	74	67.74570586894002
6780	-->	63.04121495766844	191	182.26947662364745
6782	-->	63.05559477216122	71	67.7758348053531
6784	-->	63.0699737662354	80	69.09974778797874
6786	-->	63.08435194020094	159	153.37431623256057
6788	-->	63.09872929436766	70	67.84103345225604
6790	-->	63.11310582904508	122	109.64791724708716
6792	-->	63.12748154454254	151	136.14509511888102

6794	-->	63.1418564411692	81	70.40361167992326
6796	-->	63.156230519233986	73	67.9012635644684
6798	-->	63.170603779045635	162	152.32972367760468
6800	-->	63.184976220912624	100	96.5566435582436
6802	-->	63.19934784514328	81	72.307163197115
6804	-->	63.21371865204568	183	163.01160422069776
6806	-->	63.22808864192771	79	70.53874788454092
6808	-->	63.24245781509708	82	73.2213265558055
6810	-->	63.25682617186123	195	182.0499643170105
6812	-->	63.27119371252743	79	74.7367684124361
6814	-->	63.28556043740273	78	68.01673489766323
6816	-->	63.29992634679397	146	137.99498731964658
6818	-->	63.31429144100784	88	81.80055097035927
6820	-->	63.328655720350724	107	104.27879291704649
6822	-->	63.34301918512888	152	136.4749641100947
6824	-->	63.35738183564832	76	68.15199655164771
6826	-->	63.37174367221486	76	68.10701239113361
6828	-->	63.38610469513408	136	136.44441079851737
rate Hardy-Littlewood				
6830	-->	63.40046490471142	93	90.9562195456644
6832	-->	63.4148243012521	95	83.14435793063988
6834	-->	63.42918288506107	166	147.6173713488391
6836	-->	63.443540656443105	73	68.20219590752663
6838	-->	63.45789761570284	77	74.6602042820648
6840	-->	63.47225376314463	205	192.5430887842003
6842	-->	63.48660909907265	78	76.0312422046339
6844	-->	63.50096362379085	80	71.99038927256612
6846	-->	63.51531733760301	170	164.7870981279073
6848	-->	63.52967024081273	75	68.90251494699012
6850	-->	63.54402233372329	99	91.69761487642495
6852	-->	63.55837361663788	146	136.80512787286995
6854	-->	63.57272408985949	77	72.03659221893955
6856	-->	63.5870737536908	74	68.39252185100247
6858	-->	63.6014226084344	144	137.74855247082033
6860	-->	63.61577065439261	119	109.34829607073476
6862	-->	63.63011789186758	77	70.86095442973755
6864	-->	63.64446432116126	178	165.75210288085128
6866	-->	63.65880994257536	73	68.40770209854274
6868	-->	63.6731547564114	81	73.69998247030479
6870	-->	63.687498762970755	192	183.25125832571223
6872	-->	63.701841962554504	77	68.51269805206248
6874	-->	63.71618435546363	97	82.30541443736534
6876	-->	63.7305259419988	154	137.6502610948069
6878	-->	63.744866722460614	80	72.91108921999742
6880	-->	63.75920669714932	103	93.55132724640725
6882	-->	63.773545866365055	162	145.79033037906544
6884	-->	63.7878842304078	77	68.56283754464559
6886	-->	63.802221789577196	83	76.39819243352639
6888	-->	63.81655854417282	178	168.74587384916038
6890	-->	63.83089449449402	117	101.69090756464509
6892	-->	63.84522964083985	83	68.6228941801598
6894	-->	63.859563983509275	151	137.5562113150301
6896	-->	63.87389752280099	68	68.77300936994749
rate Hardy-Littlewood				
6898	-->	63.88823025901357	77	68.64799463326305
6900	-->	63.9025621924453	206	191.7648430006335
6902	-->	63.91689332339433	100	91.13728167455149
6904	-->	63.93122365215858	76	68.75287842391434
6906	-->	63.94555317903576	148	137.4958178010013
6908	-->	63.95988190432345	76	76.82931407266915
rate Hardy-Littlewood				
6910	-->	63.974209828318955	99	91.75717373396748
6912	-->	63.9885369513194	146	137.46630193733807
6914	-->	64.00286327362176	77	68.76805496686296

6916	-->	64.01718879552274	101	95.31236109229471
6918	-->	64.03151351731891	154	137.67584186950845
6920	-->	64.04583743930658	94	92.2606242499649
6922	-->	64.06016056178197	78	68.8280637254428
6924	-->	64.07448288504098	151	137.88573014484558
6926	-->	64.08880440937942	67	68.85806276203304
rate Hardy-Littlewood				
6928	-->	64.10312513509277	82	69.01292482182735
6930	-->	64.11744506247643	268	244.86460937790994
6932	-->	64.13176419182561	73	68.92296306316538
6934	-->	64.14608252343525	73	68.91805016313879
6936	-->	64.16040005760013	162	147.0147459661756
6938	-->	64.17471679461481	70	68.9480385329735
6940	-->	64.18903273477372	103	92.19064907581757
6942	-->	64.20334787837102	160	152.1834923247211
6944	-->	64.21766222570076	102	85.62182579620028
6946	-->	64.23197577705669	79	72.7583336067305
6948	-->	64.24628853273241	147	138.72878527761443
6950	-->	64.26060049302139	100	92.69585521225216
6952	-->	64.27491165821682	90	77.69959141696486
6954	-->	64.2892220286117	162	148.69777369842052
6956	-->	64.30353160449893	76	72.61488897415431
6958	-->	64.31784038617108	94	84.09502961017506
6960	-->	64.33214837392065	205	191.07212565141796
6962	-->	64.34645556803984	73	70.32045152958042
6964	-->	64.36076196882078	77	69.16276229632427
6966	-->	64.37506757655527	157	141.64857784561931
6968	-->	64.38937239153502	77	76.60022199835444
6970	-->	64.40367641405153	115	100.89457292521084
6972	-->	64.41797964439604	186	168.08891911738553
6974	-->	64.43228208285969	92	77.13066046400014
6976	-->	64.44658372973336	73	69.85974632171599
6978	-->	64.46088458530778	145	138.57500413679975
6980	-->	64.4751846498735	96	92.58986394632386
6982	-->	64.48948392372078	79	69.27767686462796
6984	-->	64.50378240713982	151	140.00397743452467
6986	-->	64.51808010042058	95	83.31262474113042
6988	-->	64.53237700385276	78	69.34246335023056
6990	-->	64.54667311772599	206	185.64745916517867
6992	-->	64.56096844232961	78	76.90685136632995
6994	-->	64.5752629779528	82	75.93533590010881
6996	-->	64.58955672488459	161	157.16151844642522
6998	-->	64.60384968341378	72	69.39743952587978
7000	-->	64.618141853829	119	111.0281089943515
7002	-->	64.63243323641866	150	139.17376530271213
7004	-->	64.64672383147101	83	74.78384269610414
7006	-->	64.66101363927406	84	72.47899544463458
7008	-->	64.67530266011573	155	140.86126735875152
7010	-->	64.68959089428367	96	92.75569990205788
7012	-->	64.70387834206535	83	69.52203785732299
7014	-->	64.71816500374807	180	167.80443318881035
7016	-->	64.732450879619	76	69.5917213241835
7018	-->	64.74673596996496	87	80.11369057053517
7020	-->	64.76102027507272	231	202.30457486434292
7022	-->	64.77530379522887	72	69.57697824317528
7024	-->	64.7895865307197	77	69.73131692041865
7026	-->	64.80386848183144	157	139.29319278035095
7028	-->	64.81814964885004	84	83.85786131950378
7030	-->	64.83243003206127	121	101.09087448044995
7032	-->	64.84670963175078	158	139.74243658075926
7034	-->	64.86098844820398	79	69.66670037982249
7036	-->	64.87526648170608	75	69.70148637822527
7038	-->	64.88954373254218	168	155.72209429976203
7040	-->	64.90382020099709	104	103.24702167070983

7042	-->	64.91809588735552	93	83.81498896673948
7044	-->	64.93237079190195	153	139.68163969950402
7046	-->	64.94664491492067	75	76.35908622102744
rate Hardy-Littlewood				
7048	-->	64.9609182566958	78	69.83088529430277
7050	-->	64.97519081751132	210	190.17825096689256
7052	-->	64.98946259765094	75	73.31631683438444
7054	-->	65.00373359739824	75	69.81616755609264
7056	-->	65.01800381703661	186	167.54714515256936
7058	-->	65.03227325684921	72	69.84605055669057
7060	-->	65.04654191711906	103	93.38689634652195
7062	-->	65.060809798129	171	156.71429273275203
7064	-->	65.07507690016168	77	69.9503838674681
7066	-->	65.08934322349954	75	69.90580614365888
7068	-->	65.10360876842485	168	153.12987481819232
7070	-->	65.11787353521973	113	112.99537673106093
7072	-->	65.13213752416608	89	81.37405174913998
7074	-->	65.14640073554561	162	140.97595285683022
7076	-->	65.16066316963986	81	73.78152482649809
7078	-->	65.17492482673022	79	69.99541352670792
7080	-->	65.18918570709783	198	189.91591238835983
7082	-->	65.20344581102371	71	70.02527573190424
7084	-->	65.21770513878865	108	97.80630899344922
7086	-->	65.23196369067331	157	140.1895168118866
7088	-->	65.24622146695809	75	70.20912970063857
7090	-->	65.26047846792329	108	93.55242165470192
7092	-->	65.27473469384901	152	140.87905432446811
7094	-->	65.28899014501512	79	70.11484161546862
7096	-->	65.30324482170134	75	70.18921500348296
7098	-->	65.31749872418722	195	183.59979002699757
7100	-->	65.33175185275215	105	94.87515140062297
7102	-->	65.34600420767526	83	72.63081809531202
7104	-->	65.36025578923558	159	144.34907662089773
7106	-->	65.3745065977119	93	88.07480684969735
7108	-->	65.38875663338285	82	70.23908156406799
7110	-->	65.40300589652693	204	189.67020933517378
7112	-->	65.4172543874224	91	84.94944788314122
7114	-->	65.43150210634735	82	70.26404913259967
7116	-->	65.44574905357972	150	140.7561782568756
7118	-->	65.45999522939722	67	70.29388031532153
rate Hardy-Littlewood				
7120	-->	65.4742406340774	100	94.79594586826565
7122	-->	65.48848526789764	154	140.72656488895413
7124	-->	65.50272913113517	79	77.27972581585517
7126	-->	65.516972224067	94	84.56700798580688
7128	-->	65.53121454696999	161	156.33042995234987
7130	-->	65.54545610012077	107	101.67483131253722
7132	-->	65.55969688379584	84	70.41803165884487
7134	-->	65.57393689827154	166	149.74479777611782
7136	-->	65.58817614382393	71	70.7269235739853
7138	-->	65.60241462072902	89	73.03150998784571
7140	-->	65.61665232926256	258	240.42888145520234
7142	-->	65.63088926970016	72	70.47279537678857
7144	-->	65.64512544231724	82	76.27120428069895
7146	-->	65.65936084738905	154	141.32260526667042
7148	-->	65.67359548519062	79	70.53726321762583
7150	-->	65.68782935599688	123	113.95987310517899
7152	-->	65.70206246008252	147	142.01470571070132
7154	-->	65.71629479772209	87	85.84323663630869
7156	-->	65.73052636918992	76	70.59685850527707
7158	-->	65.74475717476024	145	141.26305768342124
7160	-->	65.75898721470703	99	94.64796044859236
7162	-->	65.7732164893041	82	70.62179720354787
7164	-->	65.78744499882515	162	141.95085809881792

7166	-->	65.80167274354363	76	70.6515873377682
7168	-->	65.81589972373288	94	84.77611009783891
7170	-->	65.83012593966598	200	189.22614169379924
7172	-->	65.84435139161593	82	79.01725655151765
7174	-->	65.85857607985547	87	75.76498695661307
7176	-->	65.87280000465725	175	161.61446961745358
7178	-->	65.88702316629366	77	73.50753111540982
7180	-->	65.90124556503696	106	94.57900232666022
7182	-->	65.91546720115926	193	179.79077789933393
7184	-->	65.92968807493247	75	70.92420184882579
7186	-->	65.94390818662828	74	70.80048698867806
7188	-->	65.95812753651829	160	141.82849744825782
7190	-->	65.97234612487385	107	94.54574439527865
7192	-->	65.98656395196625	85	75.981308244407
7194	-->	66.00078101806643	163	158.89417088064027
7196	-->	66.01499732344533	93	85.35967755822091
7198	-->	66.02921286837359	76	73.33567962351357
7200	-->	66.04342765312181	198	189.0265734708803
7202	-->	66.05764167796023	78	77.62654186843274
7204	-->	66.07185494315912	75	70.95414458839092
7206	-->	66.08606744898844	147	141.9775238713046
7208	-->	66.10027919571804	77	77.15792116652298
rate Hardy-Littlewood				
7210	-->	66.11449018361758	126	114.65908487916063
7212	-->	66.12870041295652	152	142.18544896136447
7214	-->	66.14290988400418	78	71.008804089091
7216	-->	66.15711859702975	95	80.91622453696588
7218	-->	66.17132655230215	150	142.3937062201662
7220	-->	66.18553375009023	105	100.28291870075186
7222	-->	66.1997401906626	80	74.91207894141215
7224	-->	66.21394587428769	189	174.712159942786
7226	-->	66.22815080123382	79	71.09803216810491
7228	-->	66.24235497176912	89	78.12234180762795
7230	-->	66.25655838616149	206	190.41496086042105
7232	-->	66.27076104467876	74	71.76370233495987
7234	-->	66.28496294758854	83	71.15750070980458
7236	-->	66.2991640951582	157	144.4946906159509
7238	-->	66.31336448765512	98	96.99874038022762
7240	-->	66.32756412534627	108	95.44011454531022
7242	-->	66.34176300849869	167	154.08880486787098
7244	-->	66.35596113737904	76	71.25151108330483
7246	-->	66.37015851225402	80	71.24667830411644
7248	-->	66.38435513338996	150	143.44000488093147
7250	-->	66.39855100105318	104	98.52782360787062
7252	-->	66.41274611550972	95	87.9695044053888
7254	-->	66.42694047702548	176	160.89731215109975
7256	-->	66.44113408586625	76	71.3800919628345
7258	-->	66.4553269422976	86	75.91076186253282
7260	-->	66.46951904658492	229	211.35116862035065
7262	-->	66.4837103989935	73	71.36553479004424
7264	-->	66.49790099978836	80	71.67788827741744
7266	-->	66.51209084923444	183	172.3031623949638
7268	-->	66.52627994759645	80	75.76127923566605
7270	-->	66.540468295139	103	95.33837115034869
7272	-->	66.55465589212643	152	144.28311026481433
7274	-->	66.56884273882305	78	71.4546420083769
7276	-->	66.58302883549293	85	76.93900189852002
7278	-->	66.59721418239992	153	143.0474026738751
7280	-->	66.61139877980781	135	124.76428156364527
7282	-->	66.62558262798014	88	79.67965729421896
7284	-->	66.6397657271803	152	143.2548534885527
7286	-->	66.65394807767159	77	71.54371917296145
7288	-->	66.66812967971704	77	71.61762037475721
7290	-->	66.68231053357957	203	190.81003587814536

7292	-->	66.69649063952188	67	71.60790819832995
rate Hardy-Littlewood				
7294	-->	66.71066999780663	102	86.06564903750636
7296	-->	66.72484860869615	160	151.61990768815878
7298	-->	66.73902647245274	81	74.29360984632189
7300	-->	66.75320358933843	112	96.84908588941813
7302	-->	66.76737995961518	164	143.4035476298465
7304	-->	66.78155558354472	86	80.60256531048813
7306	-->	66.79573046138866	83	78.46840822404975
7308	-->	66.80990459340839	188	178.4217738702845
7310	-->	66.82407797986517	112	104.46362788959543
7312	-->	66.8382506210201	89	71.874609676838
7314	-->	66.85242251713413	172	153.24221534558563
7316	-->	66.86659366846798	85	75.52279648435722
7318	-->	66.8807640752823	80	71.78111183561658
7320	-->	66.89493373783752	212	194.64764768824543
7322	-->	66.9091026563939	82	86.31473456309165
rate Hardy-Littlewood				
7324	-->	66.92327083121152	82	71.84523988975454
7326	-->	66.93743826255037	174	164.16184916378873
7328	-->	66.95160495067024	76	72.15209354547743
7330	-->	66.96577089583074	101	95.93167306906669
7332	-->	66.97993609829129	162	160.2813751410161
7334	-->	66.99410055831126	85	76.50683118499258
7336	-->	67.00826427614973	99	86.94271894603682
7338	-->	67.0224272520657	158	143.9373173495335
7340	-->	67.03658948631795	104	96.1621882788761
7342	-->	67.05075097916517	81	71.95901710657427
7344	-->	67.06491173086583	158	153.50235972258994
7346	-->	67.07907174167823	80	71.98865642386792
7348	-->	67.09323101186055	92	80.46681920269643
7350	-->	67.1073895416708	254	230.39580894715183
7352	-->	67.12154733136683	76	72.09204000662977
7354	-->	67.13570438120625	83	72.04792516981338
7356	-->	67.14986069144668	157	144.32210454154733
7358	-->	67.16401626234541	77	78.88842728030282
rate Hardy-Littlewood				
7360	-->	67.17817109415967	116	100.67307896874343
7362	-->	67.19232518714645	157	144.52941156138607
7364	-->	67.20647854156269	95	86.85438473518731
7366	-->	67.22063115766504	82	75.38652546152795
7368	-->	67.23478303571014	155	144.73704357685332
7370	-->	67.24893417595429	106	108.52857083883833
rate Hardy-Littlewood				
7372	-->	67.26308457865379	87	77.2107248392293
7374	-->	67.27723424406467	155	144.47055283948163
7376	-->	67.2913831724429	74	72.34854055015532
7378	-->	67.30553136404421	106	95.61079415599072
7380	-->	67.3196788191242	217	197.52717968455482
7382	-->	67.3338255379383	75	72.25526219316227
7384	-->	67.34797152074178	81	79.96101189822517
7386	-->	67.3621167677898	156	144.64817986875318
7388	-->	67.37626127933731	79	72.31926935492099
7390	-->	67.39040505563908	108	96.52398547545424
7392	-->	67.4045480969498	205	192.82585941275948
7394	-->	67.41869040352393	81	72.34407172854274
7396	-->	67.43283197561583	79	74.1036712597675
7398	-->	67.44697281347963	147	145.78010722409766
7400	-->	67.46111291736935	104	99.24877127206287
7402	-->	67.47525228753888	84	72.40326173510718
7404	-->	67.48939092424186	151	145.03242231623335
7406	-->	67.5035288277319	98	91.03384521923957
7408	-->	67.51766599826234	79	72.58519189246587
7410	-->	67.53180243608644	236	223.13955200143462

7412	-->	67.54593814145724	76	78.01049957457164
rate Hardy-Littlewood				
7414	-->	67.56007311462766	86	80.76533028099597
7416	-->	67.57420735585045	154	146.40989796236875
7418	-->	67.5883408653782	77	72.52160258967525
7420	-->	67.60247364346338	131	118.30197342493103
7422	-->	67.6166056903583	150	145.18070828906463
7424	-->	67.63073700631502	78	75.23331685721853
7426	-->	67.64486759158555	80	75.13696602720991
7428	-->	67.65899744642172	155	145.38722930004727
7430	-->	67.67312657107522	99	96.91831581139361
7432	-->	67.68725496579745	81	72.68388209692976
7434	-->	67.70138263083989	191	177.34652303099665
7436	-->	67.71550956645368	98	88.04257843007491
7438	-->	67.72963577288982	82	72.66945542335122
7440	-->	67.74376125039927	210	200.4543233495056
7442	-->	67.75788599923274	74	73.91132898493558
7444	-->	67.77201001964077	73	72.73335793440982
7446	-->	67.78613331187383	167	157.29728968728065
7448	-->	67.80025587618215	98	92.40202058833154
7450	-->	67.8143777128159	98	97.6445478524712
7452	-->	67.82849882202498	157	152.4356277317969
7454	-->	67.84261920405922	79	72.78767927936292
7456	-->	67.85673885916827	77	73.09799739880559
7458	-->	67.87085778760161	176	163.23006604064676
7460	-->	67.88497598960862	107	97.34497153835434
7462	-->	67.89909346543845	110	97.78203097649943
7464	-->	67.91321021534019	157	146.1554977544114
7466	-->	67.92732623956267	77	72.87631319300284
7468	-->	67.94144153835465	74	72.91062976543809
7470	-->	67.9555561119647	214	196.76308718862694
7472	-->	67.96966996064124	74	73.0578722066309
7474	-->	67.98378308463256	81	75.75674182085508
7476	-->	67.99789548418677	183	177.0453951911976
7478	-->	68.01200715955183	78	72.96491804963634
7480	-->	68.02611811097555	127	115.29507429451564
7482	-->	68.04022833870562	163	155.04700430786144
7484	-->	68.05433784298953	81	73.02874644515869
7486	-->	68.06844662407461	86	77.69524127519209
7488	-->	68.08255468220813	167	159.31466150570876
7490	-->	68.09666201763713	116	117.96726958316884
rate Hardy-Littlewood				
7492	-->	68.1107686306085	77	73.08778547630283
7494	-->	68.12487452136897	152	146.24418914243685
7496	-->	68.13897969016514	79	73.1564212086837
7498	-->	68.15308413724354	86	77.04925406786552
7500	-->	68.16718786285037	206	194.95407788929532
7502	-->	68.18129086723184	84	84.04889228595405
rate Hardy-Littlewood				
7504	-->	68.19539315063395	98	89.11497801946918
7506	-->	68.20949471330248	160	147.372009193847
7508	-->	68.2235955554832	68	73.20582501000754
rate denise				
rate Hardy-Littlewood				
7510	-->	68.23769567742164	103	97.70568302646
7512	-->	68.25179507936316	155	146.86333513158357
7514	-->	68.26589376155307	91	85.19105387732715
7516	-->	68.2799917242364	74	73.26482554797632
7518	-->	68.29408896765815	191	176.77044614071616
7520	-->	68.30818549206307	107	99.84427972415077
7522	-->	68.32228129769585	83	73.28955489777368
7524	-->	68.33637638480096	194	172.43485002794472
7526	-->	68.35047075362276	84	75.81994708006258
7528	-->	68.36456440440547	79	73.39238240004678

7530	-->	68.3786573373931	209	196.3294545292086
7532	-->	68.39274955282959	81	88.3421906442332
rate Hardy-Littlewood				
7534	-->	68.40684105095863	81	73.37802494921489
7536	-->	68.42093183202392	158	147.69332021844846
7538	-->	68.43502189626884	73	73.40750858165299
rate Hardy-Littlewood				
7540	-->	68.44911124393673	126	110.72202137844222
7542	-->	68.46319987527075	157	147.18714178468082
7544	-->	68.4772877905139	84	78.90156288347795
7546	-->	68.49137498990903	106	97.92931931839696
7548	-->	68.5054614736989	176	161.19602069052658
7550	-->	68.51954724212607	104	98.62612895770705
7552	-->	68.53363229543291	84	74.78052252560644
7554	-->	68.54771663386174	161	147.12883350608428
7556	-->	68.56180025765468	74	73.55963665324306
7558	-->	68.57588316705372	76	73.55487895706243
7560	-->	68.58996536230065	251	235.3604595525392
7562	-->	68.60404684363719	82	78.2876144146742
7564	-->	68.61812761130486	87	77.40695283984336
7566	-->	68.63220766554505	182	162.25967533937452
7568	-->	68.64628700659905	88	83.78268281984424
7570	-->	68.6603656347079	107	98.2950883329792
7572	-->	68.6744435501126	157	147.51120563976482
7574	-->	68.6885207530539	93	88.54788812431312
7576	-->	68.70259724377252	83	73.74594190346467
7578	-->	68.71667302250891	161	147.71713373620665
7580	-->	68.7307480895035	103	98.52389739173472
7582	-->	68.74482244499652	97	78.9820837508901
7584	-->	68.75889608922796	168	149.36876154398314
7586	-->	68.77296902243785	77	73.76106407622461
7588	-->	68.78704124486589	98	88.83662670622705
7590	-->	68.8011127567518	250	228.98952487612482
7592	-->	68.81518355833505	90	81.62728877755619
7594	-->	68.82925364985498	85	73.81994561428205
7596	-->	68.8433230315508	151	148.33680272266585
7598	-->	68.85739170366158	74	77.15790180931204
rate Hardy-Littlewood				
7600	-->	68.87145966642622	117	104.2512782669484
7602	-->	68.8855269200835	190	178.2527878075617
7604	-->	68.89959346487207	76	73.91299079770381
7606	-->	68.91365930103044	86	73.90824423944484
7608	-->	68.92772442879686	161	148.27626840426402
7610	-->	68.9417888484096	105	98.6874972846951
7612	-->	68.95585256010669	99	82.6281152752749
7614	-->	68.96991556412604	159	151.1818824370219
7616	-->	68.98397786070544	105	94.67183572147056
7618	-->	68.99803945008252	94	80.97959936605534
7620	-->	69.01210033249467	218	198.8899391429031
7622	-->	69.02616050817934	79	76.87464674524044
7624	-->	69.04021997737365	83	74.09904600060985
7626	-->	69.05427874031471	170	157.10539778312156
7628	-->	69.06833679723935	77	74.08949747615712
7630	-->	69.08239414838444	132	119.61205021940806
7632	-->	69.0964507939865	159	151.0651745160565
7634	-->	69.11050673428207	84	82.56612174161508
7636	-->	69.12456196950747	82	78.59696695006173
7638	-->	69.1386164998989	168	159.38369102778648
7640	-->	69.15267032569244	102	99.37482751315054
7642	-->	69.16672344712397	83	74.17297014539122
7644	-->	69.18077586442925	213	194.18597388000626
7646	-->	69.19482757784394	81	74.20236844326412
7648	-->	69.20887858760351	86	74.51072337904618
7650	-->	69.22292889394333	224	211.09291104290293

7652	-->	69.2369784970986	81	74.26589117503921
7654	-->	69.25102739730434	81	76.92668723683406
7656	-->	69.26507559479552	189	171.12595715270092
7658	-->	69.2791230898069	97	89.28889768218897
7660	-->	69.29316988257314	105	99.30774382841905
7662	-->	69.30721597332872	163	148.71760118206564
7664	-->	69.32126136230802	80	74.47101572647038
7666	-->	69.33530604974526	88	74.34931301680358
7668	-->	69.34935003587448	161	150.8441203806671
7670	-->	69.36339332092966	114	110.05649715825942
7672	-->	69.37743590514461	102	89.90988122637276
7674	-->	69.39147778875292	166	148.89384872846446
7676	-->	69.4055189719882	87	79.57578605137104
7678	-->	69.41955945508376	86	82.92500964892888
7680	-->	69.43359923827289	211	198.4872911132905
7682	-->	69.44763832178865	83	78.46521737965453
7684	-->	69.46167670586401	91	80.14179737568733
7686	-->	69.4757143907318	204	181.77385946735666
7688	-->	69.48975137662471	78	77.06014473659818
7690	-->	69.50378766377528	110	99.47106103784279
7692	-->	69.51782325241594	165	149.27491829586592
7694	-->	69.53185814277892	77	74.55490443922699
7696	-->	69.54589233509634	99	83.65113337472572
7698	-->	69.55992582960022	158	149.24617587378344
7700	-->	69.57395862652237	142	132.58588185089786
7702	-->	69.58799072609455	81	74.61361686654188
7704	-->	69.60202212854833	169	150.63895036483
7706	-->	69.61605283411512	83	74.64296842746595
7708	-->	69.63008284302623	89	78.25322532733733
7710	-->	69.64411215551284	223	199.85519532344776
7712	-->	69.65814077180593	72	74.9800327046704
rate Hardy-Littlewood				
7714	-->	69.67216869213644	107	98.40489899590717
7716	-->	69.6861959167351	159	149.62698815885514
7718	-->	69.70022244583247	86	80.04659821990151
7720	-->	69.71424827965909	115	100.15672335689773
7722	-->	69.72827341844527	192	181.19024421043775
7724	-->	69.74229786242121	73	74.79439895802446
rate Hardy-Littlewood				
7726	-->	69.756322161181697	79	74.78967978796538
7728	-->	69.77034466686248	197	188.0308127867885
7730	-->	69.78436702778754	116	99.86222145876637
7732	-->	69.7983886948218	88	74.85306006388083
7734	-->	69.81240966819477	169	149.7742484121667
7736	-->	69.82642994813584	80	74.9212052257371
7738	-->	69.84044953487422	86	77.40113710261173
7740	-->	69.85446842863908	217	204.53105299023082
7742	-->	69.86848662965934	87	91.03224501093638
rate Hardy-Littlewood				
7744	-->	69.88250413816384	94	83.22477709474606
7746	-->	69.89652095438132	162	149.95016152467093
7748	-->	69.9105370785403	87	82.2996652931026
7750	-->	69.92455251086925	119	103.37418007411468
7752	-->	69.93856725159644	183	169.32353371227444
7754	-->	69.95258130095004	78	74.99494602605013
7756	-->	69.96659465915808	99	90.315535958749
7758	-->	69.98060732644842	168	150.3594959260129
7760	-->	69.99461930304884	110	101.0789956911568
7762	-->	70.00863058918695	86	75.05356582353602
7764	-->	70.02264118509024	166	150.33046241316603
7766	-->	70.03665109098608	86	83.64154004517638
7768	-->	70.05066030710164	86	75.15566259820007
7770	-->	70.06466883366404	267	247.16270088351976
7772	-->	70.07867667090024	80	79.08754043357904

7774	-->	70.09268381903699	95	85.85386976178198
7776	-->	70.10669027830103	161	150.27357135531253
7778	-->	70.12069604891889	82	75.17076859299807
7780	-->	70.13470113111697	118	100.48041367377401
7782	-->	70.14870552512154	164	150.47756921533727
7784	-->	70.1627092311588	101	90.89309750953643
7786	-->	70.17671224945468	85	80.57743365873291
7788	-->	70.19071458023514	189	170.09866315717994
7790	-->	70.20471622372587	119	108.94379973458248
7792	-->	70.21871718015251	85	75.40911799975943
7794	-->	70.23271744974052	163	150.88647014686396
7796	-->	70.24671703271528	88	75.32190621729767
7798	-->	70.26071592930194	98	90.52026362534797
7800	-->	70.27471413972567	233	219.09097199115246
7802	-->	70.28871166421135	80	77.95172907820611
7804	-->	70.3027085029838	85	75.38045689496923
7806	-->	70.31670465626773	160	150.82889907120642
7808	-->	70.33070012428769	79	76.64855168987476
7810	-->	70.34469490726808	126	113.30112449134602
7812	-->	70.35868900543322	199	187.20086488854977
7814	-->	70.37268241900723	84	75.43429589584716
7816	-->	70.38667514821415	84	75.50698155156708
7818	-->	70.40066719327791	164	151.00448174605526
7820	-->	70.4146585544222	118	112.42974504306301
7822	-->	70.42864923187068	84	75.49282398552793
7824	-->	70.44263922584688	169	151.91403631663306
7826	-->	70.45662853657416	108	101.25073231872713
7828	-->	70.47061716427571	90	80.75128779628278
7830	-->	70.48460510917467	225	208.87871979883633
7832	-->	70.49859237149401	89	84.90557536050429
7834	-->	70.51257895145659	84	75.58059332709168
7836	-->	70.52656484928511	165	151.38402334541888
7838	-->	70.54055006520214	77	75.60984370418707
7840	-->	70.55453459943013	134	120.96827340317785
7842	-->	70.56851845219146	158	151.35548313285227
7844	-->	70.58250162370824	84	79.32080254284803
7846	-->	70.59648411420258	90	75.66833536525509
7848	-->	70.61046592389638	162	152.74160264924632
7850	-->	70.62444705301154	105	101.55537698169233
7852	-->	70.63842750176961	94	83.12826819748835
7854	-->	70.65240727039219	233	215.34585279638054
7856	-->	70.66638635910073	88	75.87699657359127
7858	-->	70.68036476811642	82	75.75605015401011
7860	-->	70.69434249766049	210	203.56960447451564
7862	-->	70.70831954795393	71	75.78528237080887
rate Hardy-Littlewood				
7864	-->	70.72229591921767	83	75.85786308058344
7866	-->	70.73627161167245	183	168.15076269895616
7868	-->	70.75024662553892	96	91.29787762013771
7870	-->	70.7642209610376	112	101.22806716763962
7872	-->	70.77819461838887	171	155.56732687843302
7874	-->	70.79216759781295	96	79.09708315627245
7876	-->	70.80613989952998	95	84.77436702274062
7878	-->	70.82011152375999	178	167.23505622817888
7880	-->	70.83408247072279	106	101.7156465714586
7882	-->	70.8480527406382	104	91.25693040352331
7884	-->	70.86202233372576	159	153.99225105171874
7886	-->	70.87599125020498	79	75.96061232638063
7888	-->	70.88995949029525	94	84.02040875988304
7890	-->	70.90392705421574	220	203.3643498083483
7892	-->	70.9178939421856	77	76.02371344350611
7894	-->	70.93186015442377	86	76.01903156089344
7896	-->	70.94582569114911	208	186.48858979276284
7898	-->	70.95979055258034	87	84.71326723807692

7900	-->	70.97375473893607	113	102.70820763897869
7902	-->	70.98771825043471	159	152.46444968813012
7904	-->	71.00168108729467	94	87.870162737312
7906	-->	71.01564324973413	84	78.61335793771171
7908	-->	71.02960473797116	163	152.43562457123787
7910	-->	71.04356555222373	121	122.88370167258417
rate Hardy-Littlewood				
7912	-->	71.05752569270967	92	81.70175061820278
7914	-->	71.0714851596467	166	152.40718333752912
7916	-->	71.0854439532524	86	76.19889388613227
7918	-->	71.0994020737442	86	79.09759791612616
7920	-->	71.1133595213394	243	225.7468493652077
7922	-->	71.1273162962553	78	81.63631375792983
rate Hardy-Littlewood				
7924	-->	71.14127239870889	106	91.78798889602558
7926	-->	71.15522782891715	167	152.58227766470623
7928	-->	71.1691825870969	72	76.32503062842864
rate Hardy-Littlewood				
7930	-->	71.18313667346482	133	112.80743447298907
7932	-->	71.19709008823752	164	152.7857268097613
7934	-->	71.2110428316314	80	76.31094781194557
7936	-->	71.22499490386285	93	78.93754723391615
7938	-->	71.238946305148	197	183.17012171666343
7940	-->	71.25289703570296	108	102.03830140063262
7942	-->	71.26684709574367	100	89.82359834017582
7944	-->	71.28079648548594	165	153.19351224641835
7946	-->	71.29474520514547	87	79.79481711991578
7948	-->	71.30869325493785	86	76.43230035818681
7950	-->	71.32264063507851	216	207.75094032670742
7952	-->	71.33658734578282	98	93.03667361513006
7954	-->	71.3505333872659	93	79.22273873469041
7956	-->	71.36447875974288	200	177.92499435028893
7958	-->	71.37842346342872	85	80.57646749608692
7960	-->	71.3923674985382	113	102.49271617580908
7962	-->	71.40631086528607	170	153.1072386880819
7964	-->	71.42025356388689	89	85.48655341836218
7966	-->	71.43419559455512	99	91.99200969543638
7968	-->	71.44813695750507	174	154.96910817505977
7970	-->	71.46207765295101	114	102.20065542752688
7972	-->	71.47601768110695	83	76.6072301681226
7974	-->	71.48995704218692	167	153.5140122124717
7976	-->	71.50389573640471	76	76.67490481400732
rate Hardy-Littlewood				
7978	-->	71.51783376397407	86	76.631711106739556
7980	-->	71.53177112510856	274	259.6305371863009
7982	-->	71.5457078200217	85	83.88319021778224
7984	-->	71.5596438489268	83	76.81044944229204
7986	-->	71.57357921203707	185	170.37951587515005
7988	-->	71.58751390956567	77	76.72379072832733
7990	-->	71.60144794172552	122	111.50842839685029
7992	-->	71.61538130872951	169	157.81266382410823
7994	-->	71.62931401079038	99	92.23668709089605
7996	-->	71.64324604812073	88	76.78205326058111
7998	-->	71.65717742093305	170	162.6834639150114
8000	-->	71.67110812943973	106	102.36367372532098
8002	-->	71.685038173853	80	76.80652156120506
8004	-->	71.69896755438498	178	166.87816733288932
8006	-->	71.71289627124769	77	76.83564630172786
8008	-->	71.72682432465301	121	111.75419550902556
8010	-->	71.7407517148127	219	207.27694273047413
8012	-->	71.7546784419384	80	76.8985429058322
8014	-->	71.7686045062416	90	76.89388693556843
8016	-->	71.78252990793378	171	154.71049438925638
8018	-->	71.79645464722611	75	81.81716959307252

rate Hardy-Littlewood				
8020	-->	71.81037872432981	112	102.8148617776964
8022	-->	71.82430213945591	200	185.6159477978579
8024	-->	71.83822448928153	94	83.51726729577723
8026	-->	71.85214698461881	85	76.98122579684565
8028	-->	71.8660684150771	157	154.64980697444062
8030	-->	71.8799891844007	125	115.66745154324263
8032	-->	71.89390929280005	83	77.31496086427728
8034	-->	71.90782874048547	186	169.70799413336815
8036	-->	71.92174752766716	98	94.81206891268417
8038	-->	71.93566565455518	79	77.06853819627052
8040	-->	71.9495831213595	224	208.665350960679
8042	-->	71.96349992828992	70	77.09763645783026
rate denise				
rate Hardy-Littlewood				
8044	-->	71.97741607555618	80	77.13138094516019
8046	-->	71.99133156336784	169	155.2641935346969
8048	-->	72.00524639193442	72	77.27603962298463
rate denise				
rate Hardy-Littlewood				
8050	-->	72.0191605614652	140	129.29571855171426
8052	-->	72.03307407216951	182	174.3529864926003
8054	-->	72.04698692425642	82	77.18491365417742
8056	-->	72.0608991179349	92	83.32266259565071
8058	-->	72.07481065341386	175	166.82103712597646
8060	-->	72.08872153090205	110	116.17711478997839
rate Hardy-Littlewood				
8062	-->	72.1026317506081	89	80.66861705786476
8064	-->	72.11654131274054	198	185.3723007725496
8066	-->	72.13045021750777	91	80.20284730599222
8068	-->	72.14435846511803	83	77.30588635621365
8070	-->	72.15826605577959	212	206.8574022456299
8072	-->	72.1721729897004	82	77.37337809130022
8074	-->	72.18607926708843	101	86.1366315379034
8076	-->	72.19998488815145	170	154.8818679155893
8078	-->	72.2138898530972	98	92.9696831649363
8080	-->	72.22779416213322	111	104.18150469979348
8082	-->	72.24169781546699	167	155.08477643450766
8084	-->	72.25560081330583	86	81.0328310341661
8086	-->	72.26950315585698	91	84.7078375495234
8088	-->	72.28340484332752	167	155.28797464331507
8090	-->	72.29730587592442	112	103.36450824050152
8092	-->	72.3112062538546	110	99.12571910321864
8094	-->	72.32510597732478	172	166.40270878335707
8096	-->	72.33900504654159	96	90.1779175429981
8098	-->	72.35290346171155	90	77.50470504648274
8100	-->	72.36680122304105	230	206.66689964150945
8102	-->	72.38069833073638	76	77.53375951526576
rate Hardy-Littlewood				
8104	-->	72.39459478500372	85	77.60582826317786
8106	-->	72.40849058604908	200	187.0791768427342
8108	-->	72.42238573407842	81	77.59649539671452
8110	-->	72.43628022929758	116	103.55814310642951
8112	-->	72.45017407191217	173	169.28126081775758
8114	-->	72.46406726212791	82	77.62090550140663
8116	-->	72.47795980015012	87	77.6545823421329
8118	-->	72.49185168618423	184	176.93632668653544
8120	-->	72.50574292043547	138	128.83374072972777
8122	-->	72.51963350310892	91	80.96055512657294
8124	-->	72.53352343440966	176	155.57889750570976
8126	-->	72.5474127145425	91	83.21780923368088
8128	-->	72.56130134371222	90	78.32504080484273
8130	-->	72.5751893221235	227	208.01825493586915
8132	-->	72.58907664998088	87	83.08880208962894

8134	-->	72.60296332748877	108	94.44816478021927
8136	-->	72.61684935485148	172	156.92406896350562
8138	-->	72.63073473227318	82	85.1193590823197
rate Hardy-Littlewood				
8140	-->	72.644619459958	134	118.53791972367023
8142	-->	72.65850353810987	185	165.880049768093
8144	-->	72.67238696693263	78	77.97302635562001
8146	-->	72.68626974663005	89	77.85316737459827
8148	-->	72.70015187740572	208	188.8032434617318
8150	-->	72.71403335946313	113	104.4622557063037
8152	-->	72.72791419300569	90	77.95415593465628
8154	-->	72.74179437823669	157	156.8297100798008
8156	-->	72.75567391535924	83	77.94484356823465
8158	-->	72.76955280457643	87	77.94021793493809
8160	-->	72.78343104609117	238	221.68352030504155
8162	-->	72.79730864010632	104	105.97140350326896
rate Hardy-Littlewood				
8164	-->	72.81118558682452	93	85.60104228744204
8166	-->	72.82506188644838	163	156.07301836446788
8168	-->	72.8389375391804	83	78.07017293891688
8170	-->	72.85281254522295	125	112.81521103053208
8172	-->	72.86668690477823	157	156.73881399977336
8174	-->	72.8805606180484	91	80.58072521155273
8176	-->	72.8944336852355	106	94.98115429479444
8178	-->	72.9083061065414	182	165.51307474544797
8180	-->	72.92217788216792	106	104.36331698934775
8182	-->	72.93604901231674	92	78.11424137554964
8184	-->	72.94991949718941	194	179.56239299168428
8186	-->	72.9637893369874	79	78.14323523390249
8188	-->	72.97765853191207	93	82.80043709350268
8190	-->	72.99152708216464	292	272.8254785857355
8192	-->	73.00539498794619	76	78.16762743170908
rate Hardy-Littlewood				
8194	-->	73.01926224945774	97	83.74319371851911
8196	-->	73.03312886690021	163	156.62288507131905
8198	-->	73.04699484047437	84	78.23019961935398
8200	-->	73.06086017038088	123	106.9751828408118
8202	-->	73.0747248568203	160	156.59482633821915
8204	-->	73.08858889999303	102	94.22820212610253
8206	-->	73.10245230009944	95	87.20004896276187
8208	-->	73.11631505733976	180	165.77696335285808
8210	-->	73.13017717191407	104	104.52487620784112
rate Hardy-Littlewood				
8212	-->	73.14403864402237	91	78.35072614305794
8214	-->	73.15789947386457	169	161.12989276873023
8216	-->	73.1717596616404	91	86.5733896213521
8218	-->	73.18561920754954	100	94.18793557437895
8220	-->	73.19947811179152	225	210.5360322944295
8222	-->	73.2133363745658	86	78.4040511994087
8224	-->	73.2271939960717	88	78.70690775888828
8226	-->	73.24105097650843	167	157.1725612701638
8228	-->	73.25490731607509	96	92.95220739300836
8230	-->	73.26876301497067	112	104.71793670112986
8232	-->	73.28261807339405	193	188.29773174364507
8234	-->	73.29647249154401	86	82.6730799395192
8236	-->	73.3103262696192	95	82.57286274383618
8238	-->	73.32417940781816	171	157.11617165423763
8240	-->	73.33803190633937	111	105.72358057838078
8242	-->	73.35188376538112	97	85.94081975227925
8244	-->	73.3657349851416	171	157.78054165562156
8246	-->	73.37958556581901	105	103.25773159382135
8248	-->	73.39343550761124	81	78.64957153698745
8250	-->	73.40728481071623	251	232.85240769021752
8252	-->	73.42113347533176	88	78.64029962716701

8254	-->	73.43498150165546	82	78.63569377627421
8256	-->	73.44882888988496	177	161.09787967233515
8258	-->	73.46267564021763	81	78.66463631920489
8260	-->	73.47652175285081	144	128.06408349210992
8262	-->	73.49036722798179	175	167.83898003970953
8264	-->	73.50421206580765	86	78.76531477539643
8266	-->	73.51805626652538	94	78.72251290516832
8268	-->	73.53189983033192	190	175.11582172281314
8270	-->	73.54574275742402	100	105.10377395152804
rate Hardy-Littlewood				
8272	-->	73.55958504799838	101	89.44088293798436
8274	-->	73.57342670225155	207	189.99656387873603
8276	-->	73.58726772038005	94	78.81390752000145
8278	-->	73.6011081025802	93	78.80930656092853
8280	-->	73.6149478490482	238	220.15288404569205
8282	-->	73.62878695998023	83	81.65676153932107
8284	-->	73.64262543557233	103	84.2510276558685
8286	-->	73.6564632760204	174	157.8105835573082
8288	-->	73.67030048152024	98	97.33895026951808
8290	-->	73.68413705226757	114	105.29655129883797
8292	-->	73.69797298845799	165	158.01199523403048
8294	-->	73.71180829028695	106	99.18593729632903
8296	-->	73.72564295794986	98	85.6085847562937
8298	-->	73.739476991642	166	158.21368672851253
8300	-->	73.75331039155846	119	106.56534964083484
8302	-->	73.76714315789437	107	94.91687532700367
8304	-->	73.78097529084465	180	158.8802049623805
8306	-->	73.79480679060414	81	79.01172629650145
8308	-->	73.80863765736754	89	82.98894362024886
8310	-->	73.82246789132952	219	211.4905488805279
8312	-->	73.83629749268457	84	79.11227357118352
8314	-->	73.85012646162707	85	79.06953516562216
8316	-->	73.86395479835137	228	210.83989688977022
8318	-->	73.87778250305168	82	79.09843538543053
8320	-->	73.891609575922	119	115.04561796289948
8322	-->	73.9054360171564	188	169.88296950842576
8324	-->	73.91926182694866	78	79.16081864313351
rate Hardy-Littlewood				
8326	-->	73.93308700549264	96	83.3688071535565
8328	-->	73.94691155298193	172	158.76216209681013
8330	-->	73.9607354696101	145	135.11014845022052
8332	-->	73.97455875557064	82	79.21859783400116
8334	-->	73.9883814110568	183	158.73356675430236
8336	-->	74.00220343626192	85	79.36205769119978
8338	-->	74.01602483137904	101	88.26002791060994
8340	-->	74.02984559660118	226	212.84455274443576
8342	-->	74.04366573212133	88	82.04034909497422
8344	-->	74.05748523813223	109	95.76773070454287
8346	-->	74.07130411482659	195	174.62555764858666
8348	-->	74.085122362397	80	79.33412262999938
8350	-->	74.09893998103601	117	106.38826728449932
8352	-->	74.11275697093593	174	164.52586273232873
8354	-->	74.12657333228907	83	79.35841123467371
8356	-->	74.14038906528761	95	79.39186826284151
8358	-->	74.15420417012359	202	191.45080049812705
8360	-->	74.16801864698898	134	124.52191113842929
8362	-->	74.18183249607566	90	82.40137044145816
8364	-->	74.19564571757537	182	173.75527072458692
8366	-->	74.20945831167973	92	82.12427577044926
8368	-->	74.22327027858033	88	79.59293288987693
8370	-->	74.23708161846855	228	219.185899802511
8372	-->	74.25089233153575	109	108.98649689591416
8374	-->	74.26470241797317	83	82.09475371406893
8376	-->	74.27851187797191	172	159.4545678091433

8378	-->	74.29232071172298	76	82.08014399835916
rate Hardy-Littlewood				
8380	-->	74.30612891941732	117	106.29033856124128
8382	-->	74.31993650124572	184	178.17289299273588
8384	-->	74.33374345739887	86	80.17261027250555
8386	-->	74.3475497880674	100	95.64433034027299
8388	-->	74.36135549344176	163	159.85854826708572
8390	-->	74.37516057371238	118	106.25903691377421
8392	-->	74.38896502906954	90	79.68964187054323
8394	-->	74.40276885970339	169	159.37005153089123
8396	-->	74.41657206580403	86	79.68042932696302
8398	-->	74.43037464756146	108	98.14408313825936
8400	-->	74.44417660516552	271	254.94814489011358
8402	-->	74.45797793880601	80	79.70469413783623
8404	-->	74.47177864867251	97	89.0242572647562
8406	-->	74.48557873495466	177	159.77197402032095
8408	-->	74.4993781978419	85	79.80498207097247
8410	-->	74.51317703752356	132	110.2624736284116
8412	-->	74.52697525418894	160	159.74383386506233
8414	-->	74.54077284802712	102	95.88648872222277
8416	-->	74.55456981922717	86	80.09234426399387
8418	-->	74.56836616797804	182	170.03616607492023
8420	-->	74.58216189446858	111	106.67462670809668
8422	-->	74.59595699888747	88	79.8488607308278
8424	-->	74.60975148142342	186	174.20576333215126
8426	-->	74.62354534226486	97	88.96480487198642
8428	-->	74.6373385816003	107	98.18551106122047
8430	-->	74.65113119961804	228	213.7970164119487
8432	-->	74.66492319650628	91	88.16767673475151
8434	-->	74.67871457245317	86	79.93532751939817
8436	-->	74.69250532764669	188	174.10132338038397
8438	-->	74.7062954622748	87	79.96414426454808
8440	-->	74.72008497652526	114	107.12290218866536
8442	-->	74.73387387058584	214	194.89049243221015
8444	-->	74.74766214464408	82	80.02633678962805
8446	-->	74.76144979888753	93	82.86658774901746
8448	-->	74.77523683350357	195	177.8160480638249
8450	-->	74.78902324867954	130	116.40963869472645
8452	-->	74.80280904460258	85	80.08394942509439
8454	-->	74.81659422145987	171	160.23467200682117
8456	-->	74.83037877943835	102	96.73470289524374
8458	-->	74.8441627187249	84	80.10818668343371
8460	-->	74.85794603950636	240	218.3565921853554
8462	-->	74.87172874196942	80	80.13698691761833
rate Hardy-Littlewood				
8464	-->	74.88551082630065	89	83.94827274441221
8466	-->	74.89929229268652	176	173.09079215127107
8468	-->	74.91307314131349	92	84.30102279835963
8470	-->	74.9268533723678	158	142.5344684999567
8472	-->	74.94063298603565	173	160.83699517707265
8474	-->	74.95441198250312	94	85.30660446700101
8476	-->	74.96819036195618	97	88.05499889229554
8478	-->	74.98196812458075	182	161.50171557370194
8480	-->	74.99574527056261	111	109.09480197116781
8482	-->	75.00952180008741	87	80.28094693283491
8484	-->	75.02329771334078	207	194.60946921720435
8486	-->	75.03707301050821	90	80.30973071644031
8488	-->	75.05084769177502	89	80.3810217610329
8490	-->	75.06462175732653	232	214.9477777898875
8492	-->	75.07839520734795	93	89.72729904731477
8494	-->	75.09216804202434	98	83.73469175870638
8496	-->	75.10594026154068	166	163.54524869388533
8498	-->	75.11971186608184	105	96.61199376935372
8500	-->	75.13348285583261	124	114.33461740845307

8502	-->	75.14725323097773	195	177.07063018162032
8504	-->	75.16102299170171	90	80.49609818841807
8506	-->	75.17479213818906	83	80.45360862893286
8508	-->	75.18856067062418	167	161.12572345836176
8510	-->	75.20232858919132	114	115.60463997190529
rate Hardy-Littlewood				
8512	-->	75.21609589407473	108	102.25419739068815
8514	-->	75.22986258545845	195	183.23433014106897
8516	-->	75.24362866352645	89	80.54445581324123
8518	-->	75.25739412846269	84	80.5399026317653
8520	-->	75.27115898045089	231	217.87346117994244
8522	-->	75.28492321967477	78	80.56866185186597
rate Hardy-Littlewood				
8524	-->	75.29868684631792	86	80.60196997460025
8526	-->	75.31244986056383	215	200.5509523670004
8528	-->	75.32621226259593	96	90.17385839506589
8530	-->	75.33997405259743	125	107.60264558996822
8532	-->	75.35373523075164	185	163.33734955837954
8534	-->	75.36749579724155	89	86.3571799100238
8536	-->	75.38125575225024	105	90.55482645947066
8538	-->	75.39501509596057	169	161.44306681738956
8540	-->	75.40877382855537	139	131.2745352035589
8542	-->	75.42253195021733	85	80.7124171702644
8544	-->	75.43628946112908	175	163.27112939099197
8546	-->	75.45004636147308	92	80.74116008903732
8548	-->	75.46380265143179	87	80.77444725987745
8550	-->	75.47755833118751	247	228.00283011434982
8552	-->	75.49131340092245	75	80.84106636156463
rate denise				
rate Hardy-Littlewood				
8554	-->	75.50506786081874	114	108.09798195321451
8556	-->	75.51882171105838	187	175.12024002966825
8558	-->	75.53257495182332	100	90.01920699443704
8560	-->	75.54632758329538	126	108.79011691680236
8562	-->	75.56007960565627	171	161.787881849355
8564	-->	75.57383101908762	81	80.8893779156513
8566	-->	75.58758182377099	96	80.88483404854432
8568	-->	75.60133201988778	226	207.05359176294192
8570	-->	75.61508160761936	113	107.98571598966957
8572	-->	75.62883058714698	80	80.94682702244303
rate Hardy-Littlewood				
8574	-->	75.64257895865173	180	161.9602163705996
8576	-->	75.65632672231473	86	82.18295778659139
8578	-->	75.6700738783169	87	80.97100597556407
8580	-->	75.68382042683905	272	261.70984563189154
8582	-->	75.69756636806203	94	97.33605804434511
rate Hardy-Littlewood				
8584	-->	75.71131170216643	90	86.39488301827124
8586	-->	75.72505642933282	185	165.19596852207926
8588	-->	75.73880054974171	89	86.56291555449245
8590	-->	75.75254406357344	116	108.17711626065389
8592	-->	75.7662869710083	172	163.02111579476787
8594	-->	75.78002927222644	89	81.08586411260814
8596	-->	75.79377096740798	104	97.61662216835359
8598	-->	75.8075120567329	166	162.30473986261623
8600	-->	75.82125254038108	116	110.78446294149131
8602	-->	75.83499241853234	109	100.72589448471155
8604	-->	75.84873169136632	185	162.96223345371845
8606	-->	75.86247035906268	94	88.79975673853562
8608	-->	75.87620842180091	85	81.47146025923547
8610	-->	75.88994587976043	282	266.44287296060264
8612	-->	75.90368273312055	88	81.23391086540028
8614	-->	75.9174189820605	92	83.79913469998505
8616	-->	75.93115462675935	180	162.90476238020258

8618	-->	75.94488966739623	93	84.65399523321692
8620	-->	75.95862410415	117	108.59061056349242
8622	-->	75.97235793719953	166	162.87655042177335
8624	-->	75.98609116672354	108	108.37633084678109
rate Hardy-Littlewood				
8626	-->	75.99982379290073	95	86.4613181037525
8628	-->	76.01355581590958	170	162.8486845417225
8630	-->	76.02728723592865	106	108.5596482928984
rate Hardy-Littlewood				
8632	-->	76.0410180531362	93	89.8296195005224
8634	-->	76.05474826771055	176	162.82116253300472
8636	-->	76.0684778798299	92	87.48720624220013
8638	-->	76.08220688967229	108	97.81797610537046
8640	-->	76.09593529741572	239	217.05864294267963
8642	-->	76.10966310323809	95	85.00089582103031
8644	-->	76.12339030731715	90	81.4633846854813
8646	-->	76.13711690983071	198	182.38072572416726
8648	-->	76.15084291095629	84	87.22941660650787
rate Hardy-Littlewood				
8650	-->	76.16456831087139	117	109.26014503137192
8652	-->	76.17829310975348	214	197.49547876645997
8654	-->	76.19201730777992	87	81.51619941479458
8656	-->	76.20574090512783	87	81.66291890863238
8658	-->	76.21946390197446	191	182.95710724890534
8660	-->	76.2331862984968	118	108.97273122772881
8662	-->	76.2469080948718	88	84.13896092188224
8664	-->	76.26062929127635	182	172.73440663439337
8666	-->	76.27434988788718	107	98.05869968423164
8668	-->	76.28806988488097	95	91.12904230907164
8670	-->	76.30178928243429	251	232.14085380194285
8672	-->	76.31550808072363	86	81.92979244550239
8674	-->	76.32922627992541	92	81.65951087241285
8676	-->	76.34294388021588	174	163.99331846113822
8678	-->	76.35666088177129	83	81.68816517881503
8680	-->	76.3703772847677	142	135.20054323475966
8682	-->	76.38409308938115	171	163.5090529352315
8684	-->	76.39780829578758	94	89.68095281245834
8686	-->	76.4115229041628	91	84.56562807685232
8688	-->	76.42523691468257	173	164.39523419960253
8690	-->	76.43895032752248	125	122.69191781618869
8692	-->	76.45266314285816	100	85.51070405703508
8694	-->	76.46637536086503	229	205.62817515631818
8696	-->	76.48008698171846	89	81.8736452807722
8698	-->	76.49379800559372	90	81.83139687225926
8700	-->	76.50750843266601	242	226.286727398077
8702	-->	76.52121826311044	96	87.03714795916875
8704	-->	76.53492749710195	97	87.31257182652178
8706	-->	76.54863613481548	181	163.85271118397296
8708	-->	76.56234417642587	106	98.57900386436987
8710	-->	76.5760516221078	132	120.95776956635169
8712	-->	76.5897584720359	195	182.02845865481598
8714	-->	76.60346472638471	88	81.9459345153109
8716	-->	76.6171703853287	92	81.97907719169466
8718	-->	76.63087544904222	168	164.0244688680923
8720	-->	76.64457991769956	115	110.31485533678074
8722	-->	76.6582837914748	112	99.51207430254482
8724	-->	76.67198707054212	176	164.22358731864512
8726	-->	76.68568975507544	95	82.03180998174761
8728	-->	76.69939184524868	88	82.10263879263591
8730	-->	76.71309334123568	239	221.08059192228902
8732	-->	76.72679424321008	88	85.88109981535527
8734	-->	76.74049455134558	101	91.42001997564715
8736	-->	76.75419426581567	238	214.91228648211086
8738	-->	76.76789338679377	99	87.91553939827747

8740	-->	76.7815919144533	136	121.44468722913018
8742	-->	76.79528984896746	182	173.69489153436027
8744	-->	76.8089871905094	93	82.21707227167259
8746	-->	76.82268393925226	96	82.17488299690757
8748	-->	76.83638009536898	173	164.34078397084218
8750	-->	76.85007565903244	138	131.4955136557777
8752	-->	76.86377063041556	86	82.34982327868828
8754	-->	76.8774650096909	180	164.53945717252518
8756	-->	76.89115879703117	104	91.82778138178745
8758	-->	76.9048519926089	95	85.86030419059215
8760	-->	76.91854459659649	244	222.4393187678679
8762	-->	76.93223660916637	88	90.01755286544206
rate Hardy-Littlewood				
8764	-->	76.94592803049073	111	99.05926481266947
8766	-->	76.95961886074176	175	164.93758728540757
8768	-->	76.97330910009156	90	82.92313181376596
8770	-->	76.98699874871211	114	109.89571891234107
8772	-->	77.0006878067753	195	179.9473890213463
8774	-->	77.014376274453	91	85.27245028575506
8776	-->	77.02806415191685	96	82.44581317301027
8778	-->	77.04175143933855	244	232.61614235063195
8780	-->	77.0554381368896	115	110.1169792315596
8782	-->	77.06912424474149	91	82.43224877833867
8784	-->	77.08280976306553	182	167.64969029362234
8786	-->	77.09649469203306	95	86.82484170525491
8788	-->	77.11017903181519	98	89.95237987462144
8790	-->	77.12386278258312	236	220.6774490864512
8792	-->	77.13754594450778	105	99.62050831325287
8794	-->	77.1512285177601	92	82.51799020255059
8796	-->	77.16491050251092	177	165.25277118950711
8798	-->	77.17859189893097	91	85.18482778330544
8800	-->	77.19227270719088	125	122.28456888628074
8802	-->	77.20595292746128	179	166.13828699834517
8804	-->	77.21963255991257	92	86.6558623030187
8806	-->	77.23331160471515	125	108.72897647714653
8808	-->	77.24699006203937	181	165.65105475675867
8810	-->	77.26066793205537	124	110.27666442280433
8812	-->	77.27434521493328	91	82.66533729699451
8814	-->	77.28802191084318	195	181.93440568572032
8816	-->	77.30169801995491	95	90.75992669696883
8818	-->	77.31537354243844	87	82.68940254567158
8820	-->	77.32904847846345	281	264.59175919699254
8822	-->	77.34272282819965	102	92.11830157647667
8824	-->	77.35639659181666	90	82.7886108618372
8826	-->	77.37006976948392	181	165.56815994206605
8828	-->	77.38374236137084	87	82.77956754559018
8830	-->	77.39741436764677	126	110.46700697110977
8832	-->	77.41108578848099	190	173.42410996424675
8834	-->	77.42475662404256	93	99.49978559938361
rate Hardy-Littlewood				
8836	-->	77.4384268745006	91	84.63913158721593
8838	-->	77.45209654002407	175	165.96555672885702
8840	-->	77.46576562078182	141	128.50843212949167
8842	-->	77.47943411694271	93	82.86072115675665
8844	-->	77.49310202867537	204	186.95768718478195
8846	-->	77.5067693561485	83	82.88926516884466
8848	-->	77.5204360995306	103	100.75346201334652
8850	-->	77.53410225899013	244	224.94248908368667
8852	-->	77.54776783469542	91	82.95083499083388
8854	-->	77.56143282681477	102	88.18581036029164
8856	-->	77.57509723551637	188	170.13717777734075
8858	-->	77.58876106096827	90	85.82084435880212
8860	-->	77.60242430333855	116	110.87807020119558
8862	-->	77.61608696279507	211	200.11616284334522

8864	-->	77.62974903950574	93	83.3007598499693
8866	-->	77.64341053363823	118	104.09180152865409
8868	-->	77.6570714453603	177	166.2802665920245
8870	-->	77.67073177483942	121	110.84743291887212
8872	-->	77.68439152224317	93	83.13103449849179
8874	-->	77.69805068773888	194	183.78015315401422
8876	-->	77.71170927149394	102	100.01795223274594
8878	-->	77.72536727367554	93	87.511670893788
8880	-->	77.73902469445082	256	227.9672424342599
8882	-->	77.75268153398689	89	83.14604477238903
8884	-->	77.76633779245066	93	83.17904662781122
8886	-->	77.77999347000902	182	166.42412542711958
8888	-->	77.7936485668288	95	93.34466606075341
8890	-->	77.8073030830767	148	134.15972924194682
8892	-->	77.82095701891934	199	192.20214514065327
8894	-->	77.83461037452332	91	83.23159148889226
8896	-->	77.848263150055	94	83.83462474973125
8898	-->	77.86191534568086	180	166.59517912357595
8900	-->	77.87556696156706	117	112.28346663029177
8902	-->	77.88921799787991	88	83.2886097558063
8904	-->	77.90286845478545	218	203.80120720685355
8906	-->	77.91651833244977	93	85.90333973157836
8908	-->	77.93016763103874	95	89.5557202032866
8910	-->	77.9438163507183	262	246.89453393384997
8912	-->	77.95746449165414	96	83.49132083901715
8914	-->	77.97111205401202	93	83.3741178699038
8916	-->	77.98475903795747	184	166.96433421119497
8918	-->	77.99840544365605	114	109.15711450048114
8920	-->	78.01205127127322	125	111.70069726992539
8922	-->	78.02569652097426	178	166.93714776223788
8924	-->	78.03934119292445	93	88.31934228789805
8926	-->	78.05298528728902	95	83.45960287620127
8928	-->	78.06662880423296	182	172.66581642388374
8930	-->	78.08027174392137	120	120.4577866710473
rate Hardy-Littlewood				
8932	-->	78.09391410651914	125	115.43416224531597
8934	-->	78.10755589219107	182	167.10806286489137
8936	-->	78.12119710110197	95	83.58702198881936
8938	-->	78.13483773341649	92	86.46870412618146
8940	-->	78.1484777892992	246	224.29043240483313
8942	-->	78.1621172689146	87	89.46664959159482
rate Hardy-Littlewood				
8944	-->	78.17575617242714	101	93.38984959284261
8946	-->	78.1893945000011	226	203.50724336185422
8948	-->	78.20303225180074	90	83.63497578625032
8950	-->	78.21666942799024	129	112.1122590422745
8952	-->	78.23030602873368	178	167.7029137758359
8954	-->	78.24394205419503	104	95.58890021149381
8956	-->	78.25757750453822	95	83.69192083969641
8958	-->	78.27121237992705	173	167.4497550361021
8960	-->	78.28484668052529	141	133.8927962764828
8962	-->	78.29848040649662	90	83.7159196484744
8964	-->	78.31211355800453	191	169.48988543838072
8966	-->	78.32574613521261	96	83.74438652120597
8968	-->	78.33937813828422	96	90.22135454094364
8970	-->	78.35300956738266	273	255.25079841355384
8972	-->	78.36664042267121	84	83.80578034885988
8974	-->	78.38027070431303	104	100.69649666607806
8976	-->	78.39390041247114	220	198.62960099023323
8978	-->	78.40752954730863	89	85.10049464130265
8980	-->	78.4211581089883	117	112.01713539618193
8982	-->	78.43478609767304	178	168.01648625822452
8984	-->	78.44841351352555	88	83.92858291770328
8986	-->	78.46204035670853	91	83.88668268915829

8988	-->	78.47566662738453	214	203.2346725063981
8990	-->	78.48929232571604	127	120.00515578544601
8992	-->	78.50291745186549	94	84.21144258079525
8994	-->	78.51654200599516	191	167.96194939806614
8996	-->	78.53016598826738	96	92.1054647455973
8998	-->	78.54378939884423	101	93.51070528032636
9000	-->	78.55741223788777	242	223.9135585018746
9002	-->	78.57103450556009	110	100.93538875701645
9004	-->	78.58465620202306	95	84.0333773042377
9006	-->	78.59827732743847	202	180.21450229304483
9008	-->	78.61189788196812	90	84.17424754040799
9010	-->	78.62551786577365	133	121.86525711527972
9012	-->	78.63913727901667	185	168.330262205035
9014	-->	78.65275612185867	96	84.08579064220207
9016	-->	78.66637439446103	119	105.70226608661325
9018	-->	78.67999209698516	183	169.21047143331202
9020	-->	78.69360922959223	136	127.8021387849843
9022	-->	78.7072257924435	99	92.03763992653911
9024	-->	78.72084178569999	184	172.01590545032013
9026	-->	78.73445720952276	89	84.17108463045152
9028	-->	78.74807206407272	93	88.038717345174
9030	-->	78.76168634951073	303	275.9489586909184
9032	-->	78.77530006599751	89	84.269778358125
9034	-->	78.7889132136938	93	84.22793465438114
9036	-->	78.80252579276016	191	169.12348506324204
9038	-->	78.81613780335711	92	84.2563558802063
9040	-->	78.82974924564513	126	113.34792503308182
9042	-->	78.84336011978453	203	188.64515788210437
9044	-->	78.85697042593564	122	114.22464483129157
9046	-->	78.87058016425856	96	84.31319076678169
9048	-->	78.88418933491353	210	190.7592004806903
9050	-->	78.89779793806048	120	113.05871903701396
9052	-->	78.9114059738594	102	88.47415405721542
9054	-->	78.92501344247016	177	169.03948081042435
9056	-->	78.93862034405254	90	84.66581337840168
9058	-->	78.95222667876628	115	101.41272761954822
9060	-->	78.96583244677096	247	226.56104517707985
9062	-->	78.97943764822617	98	88.8811058446262
9064	-->	78.99304228329132	105	94.73140161356058
9066	-->	79.00664635212584	182	168.98510788486956
9068	-->	79.02024985488906	92	84.48808556683116
9070	-->	79.03385279174016	128	112.74444419618584
9072	-->	79.04745516283826	209	202.75008536162397
9074	-->	79.06105696834248	101	92.44025347953233
9076	-->	79.07465820841178	90	84.54487879506314
9078	-->	79.08825888320509	193	182.38573899553674
9080	-->	79.10185899288116	124	113.21561843661412
9082	-->	79.11545853759881	96	89.90147393310797
9084	-->	79.12905751751669	175	169.35279671418488
9086	-->	79.1426559327933	123	114.74989815836791
9088	-->	79.15625378358726	92	85.81876667293582
9090	-->	79.16985107005692	241	227.89758714782
9092	-->	79.18344779236064	86	84.65843517437771
9094	-->	79.19704395065668	93	84.65398886667386
9096	-->	79.2106395451032	186	169.7481898501853
9098	-->	79.22423457585838	90	84.68237241039651
9100	-->	79.23782904308015	164	147.8015031675626
9102	-->	79.25142294692651	194	178.69109951023827
9104	-->	79.26501628755533	100	84.85572013602336
9106	-->	79.27860906512433	98	88.42514091726864
9108	-->	79.29220127979129	211	197.26598106340833
9110	-->	79.3057929317138	123	113.1228363893687
9112	-->	79.31938402104939	104	91.80493830688896
9114	-->	79.33297454795556	227	210.48149713110536

9116	-->	79.34656451258971	96	88.56266904339807
9118	-->	79.3601539151091	89	87.60274106422843
9120	-->	79.37374275567099	259	239.49127972759663
9122	-->	79.38733103443255	98	84.85262120688286
9124	-->	79.40091875155079	87	84.88542794247627
9126	-->	79.41450590718279	199	185.15428621997916
9128	-->	79.42809250148538	104	102.48449745911512
9130	-->	79.44167853461543	136	127.31671201523518
9132	-->	79.45526400672972	184	170.03358545084257
9134	-->	79.46884891798487	94	84.93771194067749
9136	-->	79.48243326853758	90	85.08255795088755
9138	-->	79.49601705854424	190	170.0066400257532
9140	-->	79.5096002881614	119	113.53117133065486
9142	-->	79.52318295754536	110	102.12763144503565
9144	-->	79.53676506685241	182	171.3398529086936
9146	-->	79.55034661623881	96	91.01072171034168
9148	-->	79.56392760586064	90	85.05556788285394
9150	-->	79.57750803587396	245	230.59671037546426
9152	-->	79.59108790643474	109	103.0869243129863
9154	-->	79.60466721769889	96	89.56374816170417
9156	-->	79.61824596982224	224	206.08837427355002
9158	-->	79.63182416296046	96	90.4714491842616
9160	-->	79.64540179726926	121	113.97108488846685
9162	-->	79.65897887290423	188	170.57093212598733
9164	-->	79.67255539002088	101	89.4313366644691
9166	-->	79.6861313487746	98	85.1645111937418
9168	-->	79.69970674932075	176	171.22135519779167
9170	-->	79.71328159181459	150	137.335249173365
9172	-->	79.72685587641136	95	85.22561847250614
9174	-->	79.74042960326616	211	190.72115582614506
9176	-->	79.75400277253398	100	90.67400315058867
9178	-->	79.76757538436986	102	93.24410423911527
9180	-->	79.7811474389286	252	242.47496807593578
9182	-->	79.79471893636506	87	85.27785133162969
9184	-->	79.80828987683397	116	104.95192366253224
9186	-->	79.82186026048993	189	170.68676608710715
9188	-->	79.83543008748761	97	85.33893604186255
9190	-->	79.84899935798141	122	113.87862593639105
9192	-->	79.86256807212581	183	171.10811617629295
9194	-->	79.87613623007513	93	85.36283048190124
9196	-->	79.88970383198365	108	100.42166963053221
9198	-->	79.90327087800553	215	207.78002705517153
9200	-->	79.91683736829494	138	119.27036882662466
9202	-->	79.93040330300585	97	88.31702980327907
9204	-->	79.94396868229227	215	189.62960907898324
9206	-->	79.95753350630805	88	85.44778742822453
9208	-->	79.97109777520701	96	85.51774144160264
9210	-->	79.98466148914288	249	228.6339320202138
9212	-->	79.99822464826931	118	104.84527665705266
9214	-->	80.01178725273991	99	91.52388334356999
9216	-->	80.02534930270811	197	171.00001040739474
9218	-->	80.03891079832736	102	95.24358927590077
9220	-->	80.05247173975106	120	114.28620162414774
9222	-->	80.0660321271324	184	180.90026851429545
9224	-->	80.07959196062467	87	85.63095480270603
9226	-->	80.09315124038089	112	102.84122381316492
9228	-->	80.10670996655415	179	171.39302254936598
9230	-->	80.12026813929745	133	126.31221114663028
9232	-->	80.13382575876365	96	85.76212229150414
9234	-->	80.14738282510552	189	181.3285694510379
9236	-->	80.16093933847587	89	85.67865217167585
9238	-->	80.17449529902733	94	89.2121073839787
9240	-->	80.18805070691249	329	304.6038301829187
9242	-->	80.20160556228386	96	85.70252541616284

9244	-->	80.21515986529387	95	85.73523714137187
9246	-->	80.22871361609491	204	182.35049744028052
9248	-->	80.24226681483924	98	91.44150928023888
9250	-->	80.25581946167907	129	117.58705418959383
9252	-->	80.26937155676656	181	172.181996183973
9254	-->	80.28292310025374	116	103.07879916200295
9256	-->	80.29647409229263	107	94.6570955728133
9258	-->	80.31002453303508	186	171.70562416738528
9260	-->	80.32357442263297	124	114.66322633239321
9262	-->	80.33712376123802	103	95.58917090133511
9264	-->	80.35067254900197	188	172.57796554612256
9266	-->	80.36422078607637	96	88.84836744733555
9268	-->	80.37776847261277	109	103.35460543395565
9270	-->	80.39131560876267	252	231.28612614691878
9272	-->	80.4048621946774	93	92.49033786915963
9274	-->	80.41840823050828	97	85.92879251143617
9276	-->	80.43195371640655	179	172.07168047190794
9278	-->	80.44549865252341	91	85.95706490545331
9280	-->	80.45904303900987	121	118.84813341758495
9282	-->	80.47258687601698	254	240.08183679245784
9284	-->	80.48613016369568	104	95.99147844534993
9286	-->	80.49967290219679	95	86.01360237983444
9288	-->	80.51321509167116	186	176.2139845511061
9290	-->	80.52675673226945	116	114.82151665460238
9292	-->	80.54029782414231	97	91.04494444864824
9294	-->	80.55383836744032	183	172.2144585907894
9296	-->	80.56737836231395	118	104.55393093186187
9298	-->	80.58091780891361	93	86.09839032757765
9300	-->	80.59445670738965	261	237.50068060355207
9302	-->	80.60799505789235	86	86.12664811187614
rate Hardy-Littlewood				
9304	-->	80.62153286057192	87	86.19643455320555
9306	-->	80.63507011557842	209	195.6678341127751
9308	-->	80.64860682306193	107	94.51334973555797
9310	-->	80.66214298317239	155	145.97303431095028
9312	-->	80.67567859605973	189	174.17181939405387
9314	-->	80.68921366187375	91	86.2114068887993
9316	-->	80.70274818076423	105	92.63529222811339
9318	-->	80.71628215288082	189	172.55346265577813
9320	-->	80.72981557837315	121	115.47810340482562
9322	-->	80.74334845739068	97	88.90230852922474
9324	-->	80.75688079008296	233	212.94763867727394
9326	-->	80.77041257659931	107	86.29614383000704
9328	-->	80.78394381708905	107	97.75972236444028
9330	-->	80.79747451170142	249	230.89382137104695
9332	-->	80.81100466058555	95	86.35702772110497
9334	-->	80.82453426389058	100	94.44648926412523
9336	-->	80.8380633217655	189	173.14271502439297
9338	-->	80.85159183435925	123	112.59092086784834
9340	-->	80.86511980182071	129	115.41630392257181
9342	-->	80.87864722429866	182	173.7915952444979
9344	-->	80.89217410194182	94	87.62167399499796
9346	-->	80.90570043489886	94	86.43732363987519
9348	-->	80.91922622331835	203	187.7276483533649
9350	-->	80.93275146734878	148	136.60768882991823
9352	-->	80.94627616713858	113	104.3822094613631
9354	-->	80.95980032283614	194	173.06164187881163
9356	-->	80.97332393458971	93	86.52640316721143
9358	-->	80.98684700254752	95	86.52200252930581
9360	-->	81.00036952685771	264	251.68761888619997
9362	-->	81.01389150766835	95	90.11635886030913
9364	-->	81.02741294512744	90	86.58284234657728
9366	-->	81.04093383938286	229	208.6839006852091
9368	-->	81.05445419058253	89	86.64811908252135

9370	-->	81.0679739988742	120	115.5743699871735
9372	-->	81.08149326440551	215	195.2386303597669
9374	-->	81.09501198732421	96	89.55822352732989
9376	-->	81.10853016777777	92	86.9281923819877
9378	-->	81.12204780591375	182	173.62308985029898
9380	-->	81.1355649018795	152	140.7870663260167
9382	-->	81.14908145582243	99	86.69129523373125
9384	-->	81.16259746788975	214	193.73837667222764
9386	-->	81.17611293822873	108	100.14663255054415
9388	-->	81.18962786698641	107	86.75210212532083
9390	-->	81.20314225430995	243	232.02159587223792
9392	-->	81.21665610034624	92	86.89160788251377
9394	-->	81.2301694052423	123	117.63719380929433
9396	-->	81.24368216914486	203	179.97058401854378
9398	-->	81.25719439220077	100	89.97934338863503
9400	-->	81.27070607455668	138	118.30482001001248
9402	-->	81.28421721635925	183	173.73860703165107
9404	-->	81.29772781775505	85	86.86489395073451
rate Hardy-Littlewood				
9406	-->	81.31123787889054	95	86.86050141058998
9408	-->	81.32474739991213	223	208.45470206932467
9410	-->	81.33825638096614	125	115.95031514801195
9412	-->	81.35176482219893	99	95.31240700385446
9414	-->	81.36527272375659	199	174.13041299515004
9416	-->	81.37878008578532	105	97.48916473198055
9418	-->	81.39228690843117	96	93.05888145792353
9420	-->	81.4057931918401	255	233.33761683295478
9422	-->	81.41929893615806	115	104.50125815073693
9424	-->	81.43280414153085	111	95.26003597905276
9426	-->	81.44630880810428	188	174.0768306875491
9428	-->	81.45981293602402	94	87.03400985872558
9430	-->	81.47331652543572	126	124.65579205395402
9432	-->	81.48681957648496	185	175.39972821436496
9434	-->	81.50032208931722	104	89.7660621465319
9436	-->	81.51382406407792	114	104.77594764054831
9438	-->	81.52732550091241	225	211.0727692113844
9440	-->	81.54082639996592	130	118.14580365965892
9442	-->	81.55432676138375	98	87.11414905867663
9444	-->	81.56782658531097	193	174.44149466878906
9446	-->	81.58132587189264	96	87.14232019395612
9448	-->	81.59482462127382	97	87.2118596126322
9450	-->	81.60832283359937	298	278.8865160339536
9452	-->	81.6218205090142	97	93.65586103955866
9454	-->	81.63531764766309	108	90.97064815428746
9456	-->	81.64881424969067	195	175.28287578368437
9458	-->	81.66231031524171	102	87.22681930960202
9460	-->	81.6758058444607	142	132.37011738456533
9462	-->	81.6893008374922	199	187.01688287599657
9464	-->	81.70279529448061	120	114.21898640966135
9466	-->	81.7162892155703	91	87.28314015785658
9468	-->	81.72978260090557	186	175.2263518921278
9470	-->	81.74327545063065	128	116.51363594165396
9472	-->	81.7567677648897	102	89.80141579954065
9474	-->	81.77025954382681	197	174.75276298508933
9476	-->	81.78375078758596	99	92.39978104936112
9478	-->	81.79724149631116	113	104.97428402061016
9480	-->	81.81073167014624	257	235.99420657872756
9482	-->	81.82422130923499	106	97.31221350563077
9484	-->	81.8377104137212	93	87.42827989944385
9486	-->	81.8511989837485	213	192.89481851095542
9488	-->	81.86468701946055	88	87.5674563536161
9490	-->	81.87817452100082	145	128.96737569791026
9492	-->	81.8916614885128	224	211.7652023500078
9494	-->	81.90514792213983	94	90.30843486958115

9496	-->	81.91863382202531	93	87.5496465540588
9498	-->	81.93211918831246	187	175.09047274754178
9500	-->	81.94560402114445	135	123.53501393992649
9502	-->	81.9590883206644	100	87.53646650830784
9504	-->	81.97257208701535	209	194.51579279600736
9506	-->	81.98605532034031	117	106.1612565989076
9508	-->	81.99953802078217	97	87.5971104147861
9510	-->	82.01302018848375	253	234.27286355625054
9512	-->	82.02650182358786	97	93.16142638015187
9514	-->	82.0399829262372	105	90.23930561802251
9516	-->	82.05346349657434	211	194.40334644969067
9518	-->	82.06694353474192	86	87.64899446516743
rate Hardy-Littlewood				
9520	-->	82.08042304088238	170	149.58018103498776
9522	-->	82.09390201513817	199	183.66584969259893
9524	-->	82.10738045765167	101	87.70961684451692
9526	-->	82.12085836856515	109	97.65586251440166
9528	-->	82.13433574802083	188	175.84583202134337
9530	-->	82.14781259616086	123	117.07624558460985
9532	-->	82.16128891312735	94	87.7658559159266
9534	-->	82.17476469906225	232	211.51929551822778
9536	-->	82.18823995410762	97	88.35411741579398
9538	-->	82.20171467840524	104	93.30742992910064
9540	-->	82.21518887209693	257	238.68407149482678
9542	-->	82.22866253532453	104	96.04347410657029
9544	-->	82.24213566822962	103	87.8870931911732
9546	-->	82.2556082709538	202	185.08021956367583
9548	-->	82.26908034363869	120	121.16065519401091
rate Hardy-Littlewood				
9550	-->	82.2825518864257	130	117.76049935211208
9552	-->	82.29602289945626	199	176.6312475521964
9554	-->	82.3094933828717	104	94.07854361919418
9556	-->	82.32296333681327	102	87.9345166785725
9558	-->	82.3364327614222	193	178.90811517931724
9560	-->	82.34990165683965	123	117.72905822553467
9562	-->	82.36337002320663	121	105.68278085347265
9564	-->	82.37683786066412	191	176.12907157660356
9566	-->	82.3903051693531	94	87.98635216354427
9568	-->	82.40377194941445	110	100.55086036023167
9570	-->	82.41723820098893	295	270.3856753171752
9572	-->	82.43070392421723	97	88.04691024549074
9574	-->	82.4441691192401	98	88.04254556995146
9576	-->	82.45763378619804	245	223.72059603710755
9578	-->	82.47109792523166	90	88.07063876014739
9580	-->	82.48456153648137	132	117.66788893258679
9582	-->	82.49802462008759	194	176.27112034591417
9584	-->	82.51148717619061	93	88.24194462637962
9586	-->	82.5249492049307	94	88.12681812082559
9588	-->	82.53841070644808	199	192.17226486949497
9590	-->	82.55187168088281	159	142.0630060516908
9592	-->	82.56533212837502	109	98.86043979777186
9594	-->	82.57879204906467	221	197.29141561308606
9596	-->	82.59225144309166	96	88.2154303856676
9598	-->	82.60571031059585	97	88.21106963142694
9600	-->	82.61916865171708	261	235.21793452133352
9602	-->	82.63262646659501	77	88.23914879853959
rate denise				
rate Hardy-Littlewood				
9604	-->	82.64608375536933	127	105.88176630735259
9606	-->	82.65954051817963	197	176.60806861572198
9608	-->	82.67299675516543	91	88.3364964806379
9610	-->	82.68645246646618	137	121.7612697899862
9612	-->	82.69990765222124	190	178.6115929507883
9614	-->	82.71336231256998	117	108.83528743476892

9616	-->	82.72681644765163	93	88.46647481861241
9618	-->	82.7402700576054	234	212.9332768273405
9620	-->	82.75372314257041	135	132.17644228386004
9622	-->	82.76717570268573	100	94.5872938544496
9624	-->	82.78062777380903	194	177.1933219780169
9626	-->	82.79407924892308	93	88.40757485644436
9628	-->	82.80753023532296	106	92.80924917376406
9630	-->	82.82098069742865	264	238.0248971233994
9632	-->	82.83443063537896	112	108.70579153754909
9634	-->	82.84788004931252	97	88.46369826008424
9636	-->	82.86132893936795	212	199.34503628523606
9638	-->	82.87477730568374	91	91.14141826752095
rate Hardy-Littlewood				
9640	-->	82.88822514839836	126	118.47687860556196
9642	-->	82.90167246765022	191	177.11317670967006
9644	-->	82.91511926357764	93	88.55221890282412
9646	-->	82.92856553631889	124	118.16558213430116
9648	-->	82.9420112860122	202	179.81147520663527
9650	-->	82.95545651279565	123	118.69494375884352
9652	-->	82.96890121680737	105	94.5319277683523
9654	-->	82.98234539818533	192	177.281462526975
9656	-->	82.99578905706746	99	95.87592912145045
9658	-->	83.00923219359164	114	98.6849245452776
9660	-->	83.02267480789571	324	297.11374021379737
9662	-->	83.03611690011738	101	88.6600570695521
9664	-->	83.04955847039432	110	89.25072798583038
9666	-->	83.06299951886416	194	178.34140749257276
9668	-->	83.07644004566443	97	88.7204878180993
9670	-->	83.08988005093263	140	118.38626801777279
9672	-->	83.10331953480616	220	200.22727390619647
9674	-->	83.1167584974224	119	106.62552018193765
9676	-->	83.13019693891859	98	92.61198302736885
9678	-->	83.14363485943198	191	177.6179092415487
9680	-->	83.15707225909975	140	131.5079700369577
9682	-->	83.17050913805895	101	91.65339044576731
9684	-->	83.1839454964466	197	178.2569642432217
9686	-->	83.19738133439967	96	92.65736249608169
9688	-->	83.2108166520551	118	107.21205900480233
9690	-->	83.22425144954968	284	267.5590291755872
9692	-->	83.23768572702019	93	88.88867352746948
9694	-->	83.25111948460332	101	92.11358071266477
9696	-->	83.26455272243572	193	179.55555447225743
9698	-->	83.27798544065396	106	97.2366745433267
9700	-->	83.29141763939454	121	119.79186340540527
9702	-->	83.30484931879394	254	237.12542622944548
9704	-->	83.31828047898848	98	89.00948564484749
9706	-->	83.33171112011453	104	93.63163740920696
9708	-->	83.34514124230832	184	178.14861100804617
9710	-->	83.35857084570603	134	118.75986477005038
9712	-->	83.37199993044378	99	89.139176628516
9714	-->	83.38542849665765	192	178.12226800933504
9716	-->	83.39885654448365	117	107.13375179509607
9718	-->	83.41228407405764	102	92.02734002918854
9720	-->	83.42571108551553	254	237.4616263492145
9722	-->	83.43913757899315	96	89.0804446551586
9724	-->	83.4525635546262	128	115.16912515358636
9726	-->	83.46598901255035	195	178.29030484845808
9728	-->	83.47941395290124	103	94.34554760632952
9730	-->	83.49283837581443	161	143.62980603775404
9732	-->	83.50626228142534	193	178.48461949978218
9734	-->	83.5196856698694	103	92.81510942320006
9736	-->	83.53310854128203	101	89.23352035835997
9738	-->	83.54653089579847	196	178.67916415001537
9740	-->	83.55995273355396	133	119.16270903521112

9742	-->	83.57337405468363	101	89.22045885926671
9744	-->	83.58679485932262	235	222.0490535658709
9746	-->	83.60021514760597	113	99.36941343060366
9748	-->	83.61363491966863	93	89.28078475834823
9750	-->	83.62705417564553	286	259.6600192864874
9752	-->	83.64047291567151	108	95.35697012245389
9754	-->	83.65389113988135	99	89.30443989589656
9756	-->	83.6673088484098	194	179.26418245145564
9758	-->	83.68072604139144	124	117.2534031359827
9760	-->	83.69414271896093	135	121.12286135733306
9762	-->	83.70755888125281	185	178.79416803448493
9764	-->	83.72097452840148	98	89.3927340657815
9766	-->	83.73438966054144	90	94.99824159918796
rate Hardy-Littlewood				
9768	-->	83.74780427780695	219	204.30647511697111
9770	-->	83.7612183803323	132	119.31968656348756
9772	-->	83.77463196825173	117	107.60368488526542
9774	-->	83.78804504169938	191	179.85128647425682
9776	-->	83.80145760080933	108	99.73920319693815
9778	-->	83.81486964571563	99	89.47234027840544
9780	-->	83.82828117655227	260	240.0632711496799
9782	-->	83.84169219345307	103	92.13835875001598
9784	-->	83.85510269655194	99	89.56929800275454
9786	-->	83.8685126859826	230	215.7539447896489
9788	-->	83.88192216187878	98	89.56058958966325
9790	-->	83.8953311243742	151	134.17352956172562
9792	-->	83.90873957360233	205	191.04415136572834
9794	-->	83.9221475096968	102	92.26241435664052
9796	-->	83.935554932791	110	93.87236967329045
9798	-->	83.94896184301837	200	190.4411377894131
9800	-->	83.96236824051223	147	143.37261135694382
9802	-->	83.97577412540589	118	101.3903924029406
9804	-->	83.98917949783251	205	194.44677231234203
9806	-->	84.0025843579253	95	89.66812038967646
9808	-->	84.01598870581729	101	89.81055842914883
9810	-->	84.02939254164154	258	241.3757324703199
9812	-->	84.042795865531	101	100.1084604221751
9814	-->	84.05619867761862	118	107.80089945936835
9816	-->	84.06960097803719	206	179.880337419916
9818	-->	84.08300276691948	94	89.75199207111872
9820	-->	84.09640404439824	135	119.90828772647274
9822	-->	84.10980481060614	206	179.6331194789055
9824	-->	84.12320506567572	98	90.06998236315995
9826	-->	84.13660480973955	100	95.77558594433128
9828	-->	84.1500040429301	259	235.12211885765865
9830	-->	84.16340276537977	124	119.87882518119143
9832	-->	84.17680097722089	98	89.90474818260124
9834	-->	84.19019867858573	219	201.01489629122352
9836	-->	84.2035958696066	96	89.89605521242711
9838	-->	84.21699255041555	91	89.8917328853561
9840	-->	84.23038872114478	264	245.84595315863427
9842	-->	84.24378438192626	129	117.49130589955628
9844	-->	84.25717953289197	104	95.09416762833544
9846	-->	84.27057417417387	196	180.18869346147736
9848	-->	84.28396830590377	100	90.01649249532824
9850	-->	84.29736192821349	130	120.55812899587526
9852	-->	84.31075504123477	195	180.16220166567743
9854	-->	84.3241476450992	103	98.42607413783668
9856	-->	84.3375397399385	130	119.99890806773779
9858	-->	84.35093132588418	202	189.88574792406644
9860	-->	84.36432240306767	144	132.78073112071758
9862	-->	84.37771297162047	104	90.0593472646445
9864	-->	84.3911030316739	204	181.44423825111397
9866	-->	84.40449258335927	86	90.08727509918722

rate Hardy-Littlewood

9868	-->	84.41788162680785	99	90.11951798972166
9870	-->	84.43127016215082	316	294.71709024034743
9872	-->	84.44465818951926	102	90.25742116037506
9874	-->	84.45804570904426	104	90.14312401144323
9876	-->	84.47143272085682	208	180.49722964578262
9878	-->	84.48481922508788	110	100.39385392453998
9880	-->	84.49820522186828	156	138.8664308296819
9882	-->	84.51159071132888	200	183.41838309731864
9884	-->	84.52497569360042	117	108.54195518593058
9886	-->	84.53836016881361	101	90.22688050537707
9888	-->	84.55174413709906	196	182.2317491054233
9890	-->	84.56512759858737	146	129.1189507174557
9892	-->	84.57851055340906	103	90.28702049273497
9894	-->	84.59189300169452	214	194.59115816616125
9896	-->	84.60527494357423	96	90.35150924990344
9898	-->	84.61865637917847	118	109.44529070853355
9900	-->	84.63203730863755	301	267.5742808435377
9902	-->	84.64541773208163	98	90.33852438087894
9904	-->	84.65879764964089	102	90.48063679981487
9906	-->	84.67217706144541	211	198.70029102635885
9908	-->	84.68555596762528	94	90.39864393074635
9910	-->	84.69893436831042	134	120.62328987316224
9912	-->	84.71231226363074	233	220.74198683234417
9914	-->	84.72568965371606	100	90.42223374110873
9916	-->	84.73906653869626	109	94.43209826448046
9918	-->	84.75244291870104	223	198.59552118808486
9920	-->	84.76581879386	141	124.7528806344854
9922	-->	84.77919416430287	112	103.08807663602815
9924	-->	84.7925690301591	200	181.16680122165303
9926	-->	84.80594339155824	122	108.73880565955807
9928	-->	84.81931724862972	108	97.89472117957571
9930	-->	84.83269060150285	266	242.10853371376004
9932	-->	84.84606345030703	105	99.28201634840097
9934	-->	84.85943579517145	103	90.56170458439702
9936	-->	84.87280763622536	202	189.739341759078
9938	-->	84.88617897359785	103	90.58959204994207
9940	-->	84.899549807418	162	147.03701062641676
9942	-->	84.91292013781488	200	181.30797427372315
9944	-->	84.92628996491733	113	101.588357836656
9946	-->	84.93965928885439	113	90.64536028718624
9948	-->	84.95302810975477	196	181.5013458218548
9950	-->	84.96639642774734	126	121.48691912513186
9952	-->	84.97976424296077	95	90.96237906277213
9954	-->	84.99313155552373	248	220.46542028332738
9956	-->	85.00649836556482	98	96.77637254152117
9958	-->	85.01986467321258	105	99.21693375548955
9960	-->	85.03323047859551	269	244.91937664820313
9962	-->	85.04659578184199	113	97.12049322623892
9964	-->	85.05996058308045	99	94.5883129005057
9966	-->	85.07332488243911	217	203.05709023981788
9968	-->	85.0866886800463	120	110.18869056830867
9970	-->	85.10005197603019	139	121.18085512832428
9972	-->	85.11341477051884	194	182.27707528791206
9974	-->	85.12677706364036	93	90.84047895336022
9976	-->	85.1401388555228	104	96.49807014622822
9978	-->	85.15350014629408	195	181.80964561235433
9980	-->	85.1668609360821	136	121.39584594606295
9982	-->	85.18022122501468	135	118.18615638408005
9984	-->	85.1935810132196	211	198.3096501352718
9986	-->	85.20694030082456	103	90.92406789639921
9988	-->	85.22029908795727	110	101.47096919783412
9990	-->	85.23365737474528	269	249.41818752051685
9992	-->	85.24701516131614	102	91.02057665271748

9994 --> 85.26037244779737 98 96.68126542582851
9996 --> 85.27372923431632 255 232.8972811059319
9998 --> 85.28708552100045 99 91.00763687868697
10000 --> 85.300441307977 127 121.33780686630516
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ratages Hardy-Littlewood = 0.09823929571828731