Report

CHANG GAO 47332710

Bruce Tan 10521466

# Test Setup

The central part of the test setup is done via the framework provided, for which we write a separate independent test method to test the running time, number of backtracks and number of assignments for each different problem, which are all logged and measured for further analysis. Since there might be variations with CPU execution time, repeated tests are done for each combination, and an average is calculated for each performance measure to ensure the maximum accuracy.

For the number of combinations to test, we choose to test all combinations of all possible permutation, this result in 390 different combinations for each 15 different problems. Since we were lucky enough to finish all the codes 3 days after the project is released, we have sufficient time test out all possible combinations without worrying about narrowing the number of combinations. The second reason to test on such a large scale is that it provides us with more comprehensive data for analysis.

However, due the nature of such a large scale test, number of tests and timeout is chosen differently for each difficulty level. Below is a glimpse of the test setup

---------------------------------------------

NumTest | Difficulty | Timeout

---------------------------------------------

20 | 'E' | 30/60

5 | 'M' | 60/120

1 | 'H' | 300/600

---------------------------------------------

The test machine spec is i7 6700hq, with 16GB of ram, running on Windows 10 Education.

# 1.2 Interpretation of raw data set

Four different data are collected for each test, which are id, running time, number of backtracks and number of assignments for each different problem. For Example, the following dataset in PE.txt, in section PE1.txt

id numBacktracks numAssignments avgtime

16 1 5 0.026801705360412598

First value is the id of the combination. The name of the combination algorithm can be obtained from id\_list.txt, from which we can obtain:

16 ['NKD', 'MRV', 'LCV']

Thus, we can interpret this data by saying, the algorithm with Naked Double, MRV and LCV, is able to solve PE1.txt in 26.8ms, with 1 backtracks and 5 assignment nodes.

If the combination cannot solve the Sudoku puzzle in given timeout limit, the runtime is recorded as infinity, indicating failure in solving the puzzle.

# Combinations

There are a total of 390 different combinations in our test, each of which correspond to a specific ordering of the algorithms. For each example, with naked triple and naked double, two different combination can be generated , as illustrated below

NKD, NKT, None, None

NKT, NKD, None, None

In our experiments, we find that the order the algorithms do matter in terms of the runtime performance. This possibly due to the number of hints available to NKD and NKT.

# 1.4 Comparison Methods

Multiple aspects of comparisons can be obtained by comparing the raw dataset’s three performance measure. The following sections describe those aspects in more detail

* + 1. Solving

The solving ability of a combination of algorithm is defined by its ability to solve a Sudoku puzzle in given set of time. If the algorithm cannot solve the problem in given time limit, we consider it as failure. However, solving ability of each combination could vary greatly across different Sudoku puzzle. In some cases, some combination is able to solve PH1 in 10 seconds, but fail to solve PH2 in 300 seconds time limit. To address this problem, we introduce penalty time.

* + 1. Penalty time

Recall that if a combination cannot solve in given limit time, runtime is recorded as infinity. In order to measure the mean the runtime of each algorithms, but also consider failure cases, we introduce penalty time. If a combination fails to solve the puzzle, a penalty time which is twice the timeout is added to the running time. E.g. if timeout is 300, penalty time would be 600.

Then the average is calculated by considering penalty time during the calculation. However, it should be stressed that penalty time does not depict a precise view of the performance of the combination, but only allows us to compare the performance of different algorithms.

The mean of the runtime of a combination should not be interrupted as a precise running time measure, but only a mere indicator for comparing itself with other combination.

* + 1. Puzzle Difficulty

In this report, all x-axis are categorized into three different parts, PE, PM and PH, which in turn means the average of 5 sub problems.

* + 1. Number of Backtracks and Assignments

The number of backtracks records the number of deadend during backtracking search. The number of assignments records the number of non-deadend nodes during backtracking search that lead to the correct solution.

Both backtracks and assignments measure the space complexity of the algorithms. In general cases space used is associated with difficulty level, since the harder the problem is, the more search it needs to do. Both of them are also positively associated with runtime of the combination. This is also due to the fact that good combination algorithms try to terminate deadend as early as possibly to prevent backtracks. Those combinations that cannot solve the problem always generate huge number of backtracks and assignments.

# 1.5 Defining the Best Combination

When considering the best combinations out of the 390 combos, combinations that cannot solve all puzzles are excluded from the list. Because the best combination should always be able to solve a puzzle in given time constraint.

The second factor taken into account is the average runtime. The less time it runs, the better it is. The third factor is the space complexity.

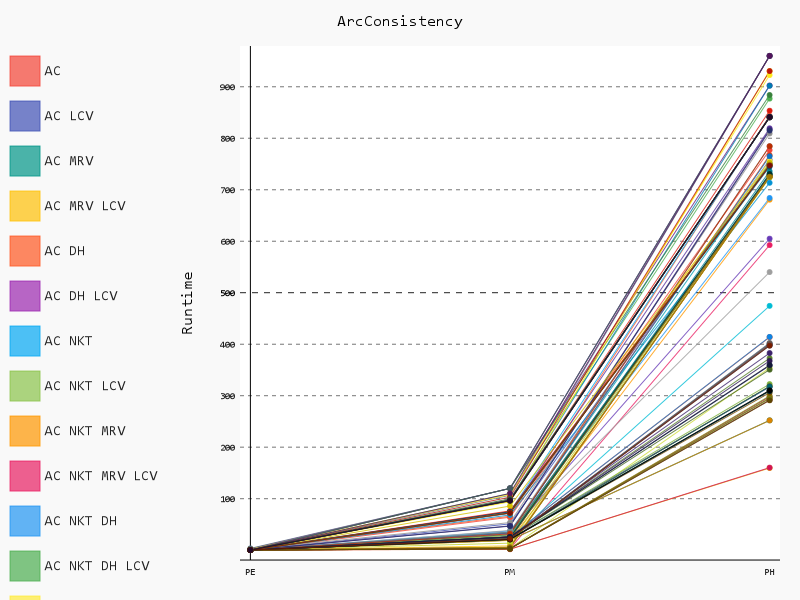
There are two reasons we favour runtime over space complexity, the first reason is that our test machine, which has 16GB of ram, so memory is large enough that space used do not necessarily affect the performance. The second reason is that runtime is a better indicator that shows fast the combination is.

# Evaluation

We first start off by looking at how heuristics and the other of other consistency checking affect each consistency checking

Looking at the

looking at the above chart, for PE problem, all combinations merely make a difference. But as the problem grow harder, the differences among combinations in terms of runtime start to emerge. From the graph we can see that, the most efficient subsequent combinations out of all three difficulties are:



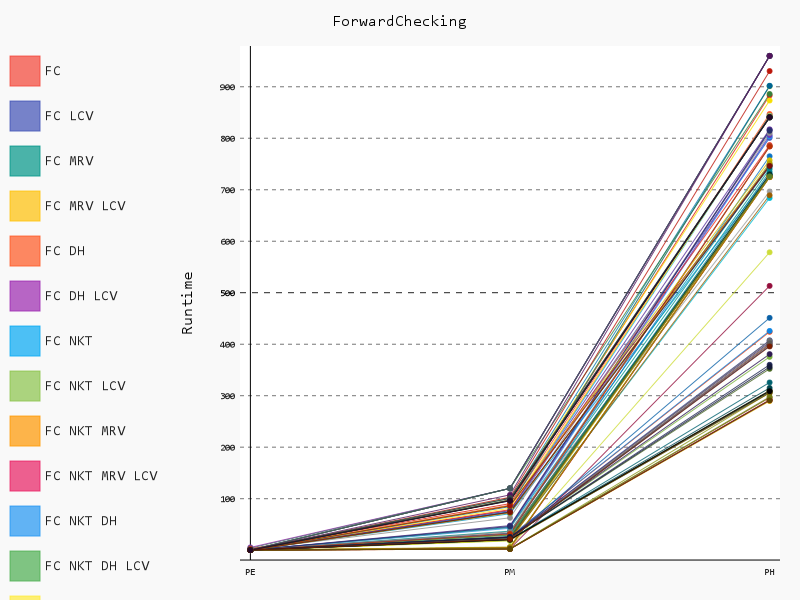
AC NKD NKT MRV LCV

AC NKT NKD MRV LCV

AC NKT NKD MRV

AC NKD NKT MRV

AC NKT NKD FC MRV LCV



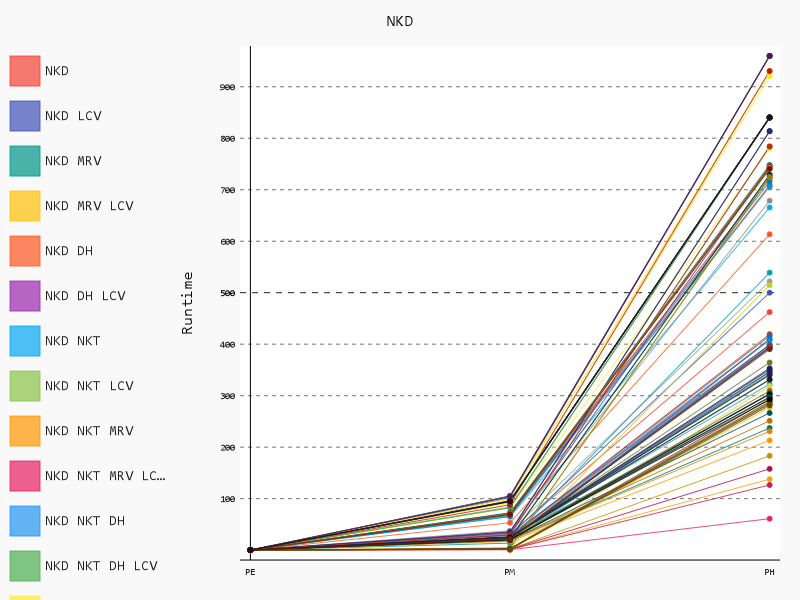
The most efficient combinations starting with FC are:

FC NKD NKT MRV LCV

FC NKT NKD AC MRV LCV

FC NKD NKT AC MRV LCV

FC NKT NKD MRV LCV



The most efficient combinations starting with NKD are:

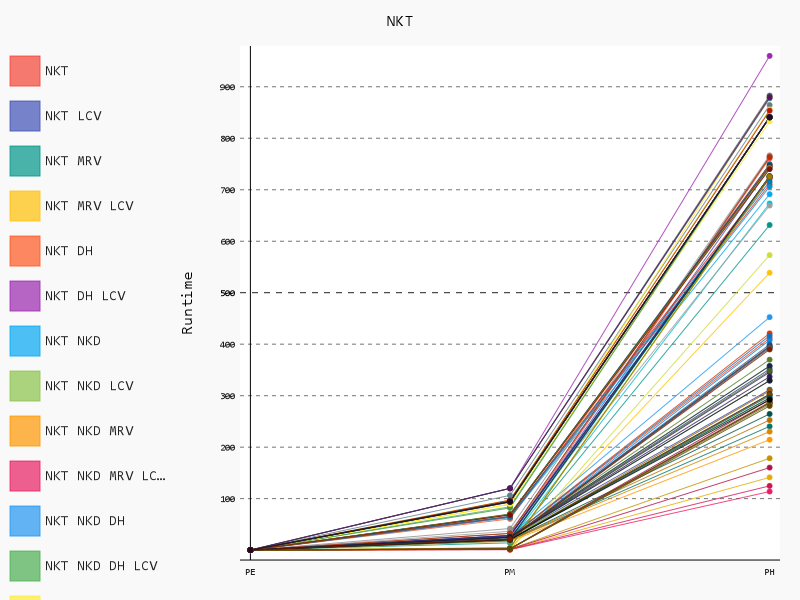
NKD NKT MRV LCV

NKD NKT AC MRV LCV

NKD AC NKT MRV LCV

NKD NKT FC MRV LCV

NKD FC NKT MRV LCV



The most efficient combinations starting with NKT are:

NKT NKD MRV LCV

NKT NKD AC MRV LCV

NKT AC NKD MRV LCV

NKT NKD FC MRV LCV

NKT FC NKD MRV LCV

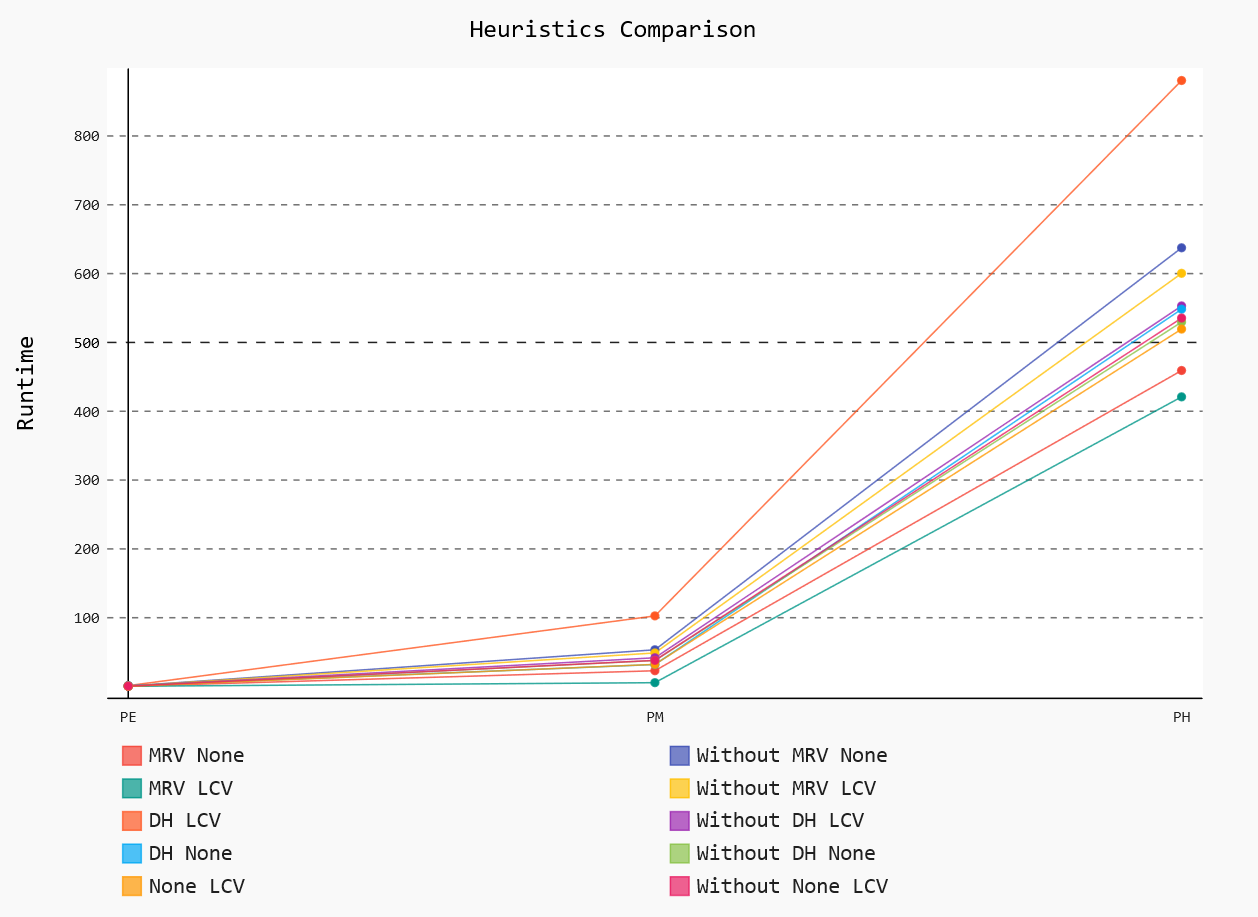
Looking at the above four different charts, we can see that by adding NKT and NKD to FC or AC, the runtime improves dramatically, on average increases by 214.3%. Both NKT and NKD boosts the performance significantly.

Interestingly, the top five most efficient combinations all contain variable length heuristics MRV and LCV. MRV chooses the most constraining variable first, then LCV tries to avoid failure by assigning values that leave the maximum number of choices. The idea of MRV is to prune impossible assignments as soon as possible, and LCV is to search the whole state space and find a solution as soon as possible.

Both NKD and NKT are heuristics that eliminate possible candidates by inferencing, the idea of NKD and NKT is also to solve the puzzle as quick as possible as well.

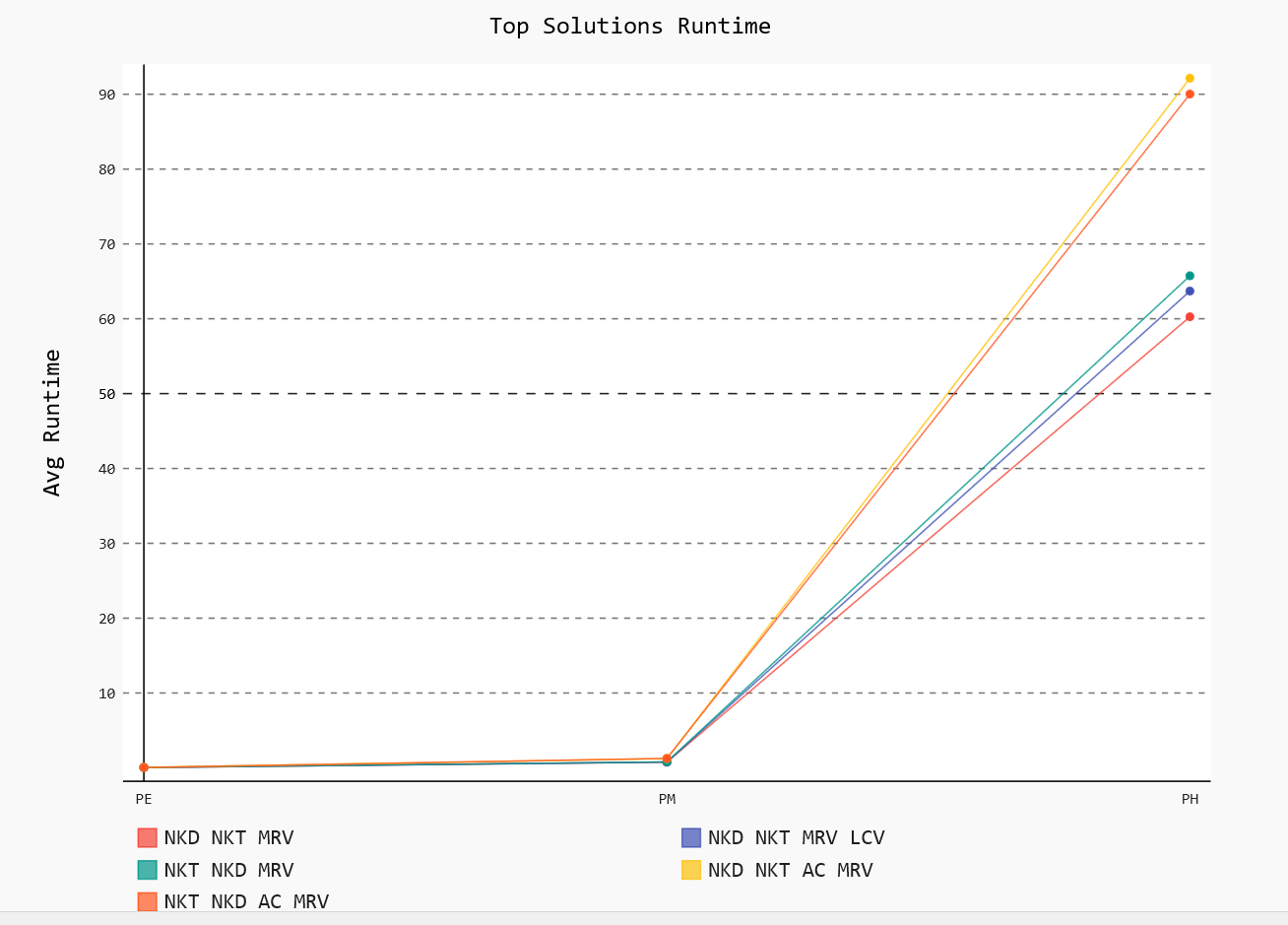
At this step, we can make an assumption that NKD and NKT are the best combinations for consistency checking, and MRV LCV are the best combinations for heuristics.

We can further explore the efficiency of each heuristics by looking at each of the heuristics combination.



Looking at the graph above, it shows the average runtime of different combinations of heuristics ignoring consistency checking. We can find MRV LCV is the best possible combination for heuristics, it on average is 32.168% better than the other heuristic combinations.

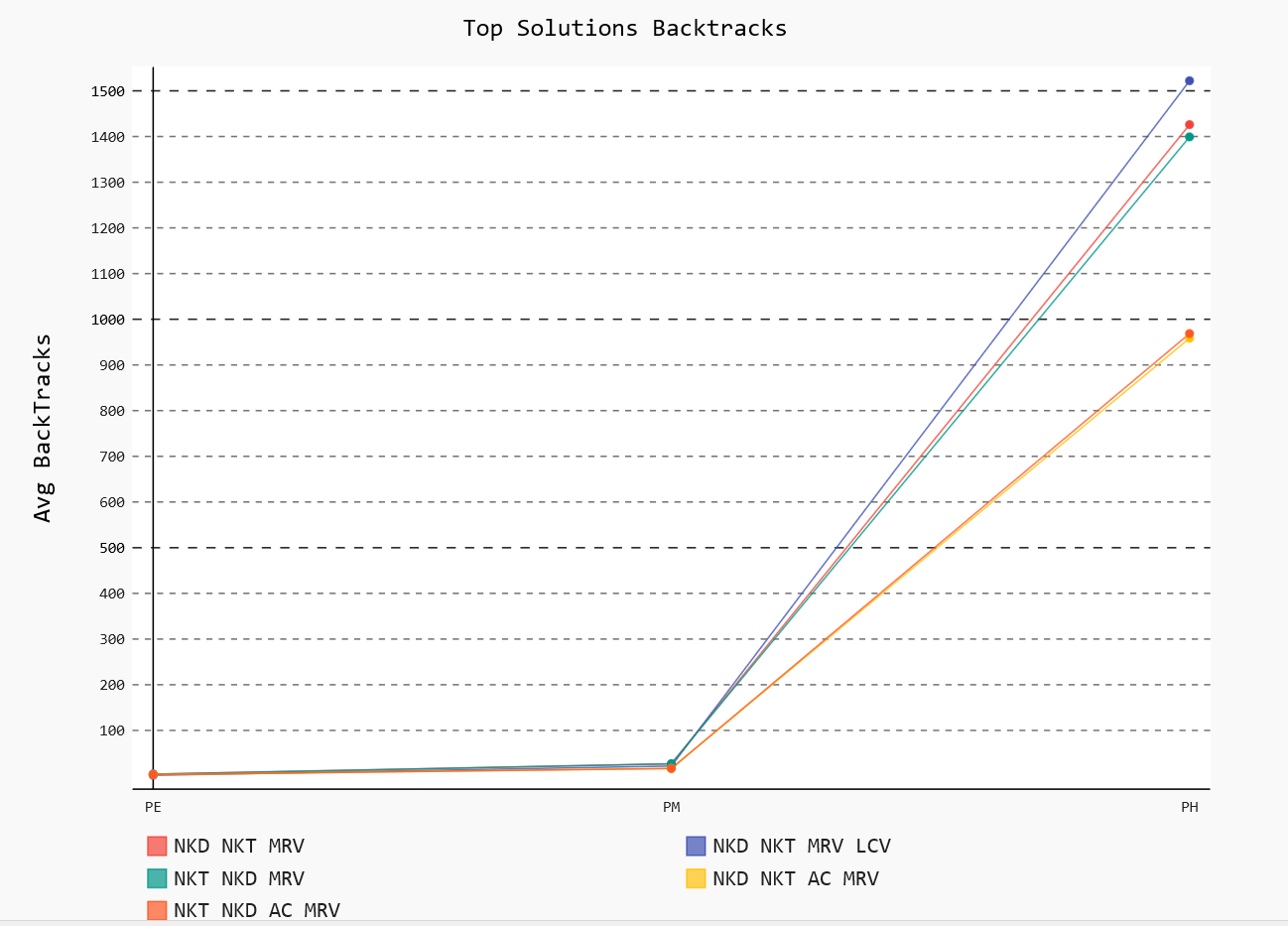
The above illustration shows that while each heuristics may not work at best individually, the combinations can be powerful. The second place goes to MRV, None. Third place goes to None LCV. Combining the previous assumption, we can hypothesize that the best combination could be a combination of NKT, NKD and MRV None and MRV LCV and None LCV.

Now lets look at the solutions are able to solve all the puzzles in given time constraint

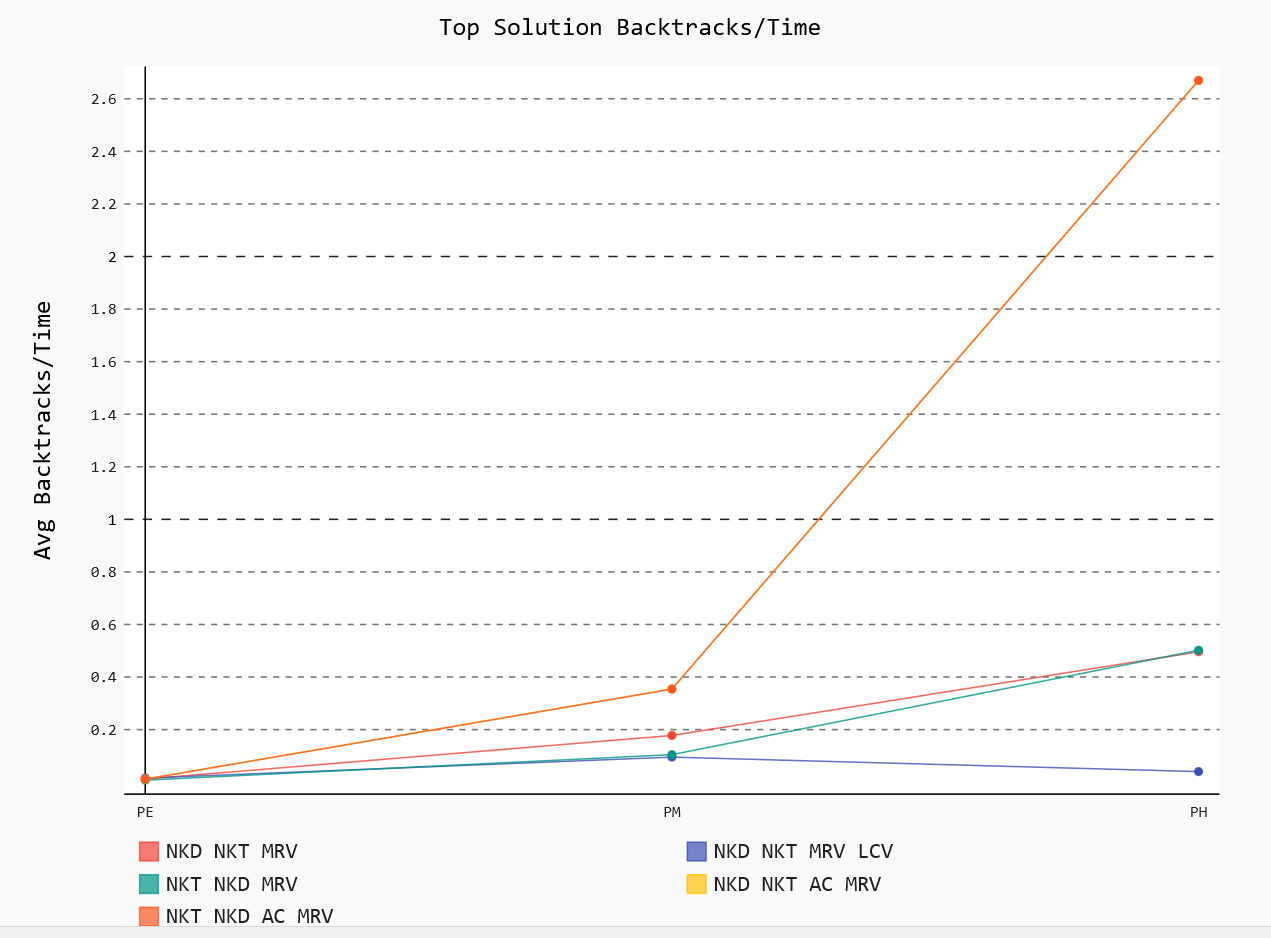
The above graph takes the average runtime of all the combinations that solve all the problems, so as to eliminate the variations. The best combination should be able to solve all problems in all cases in shortest amount of time, and in given space constraint.

We can see that the combination of NKD, NKT, MRV is the fastest combination of all, and is twice as fast as the second combination. The second place goes to NKD NKT MRV LCV. Third place goes to NKT NKD AC MRV.

The heuristics for best combinations are MRV and MRV LCV, and MRV, which proves our hypothesis about heuristics, it also shows that NKT NKD works best with MRV , and this sort of combination are the fastest.



The above figure shows the average backtracks for each combination for each difficulty. As we can see, our previous best combinations still have a relatively low backtracks except NKD NKT MRV LCV. This combination although achieves second best runtime, but have a relatively higher average backtracks. This means higher space complexity.



Looking at the charts for backtracks / time for all possible combinations, we can see that although NKD NKT MRV LCV has more space complexity, but it has less average time/backtracks. This is possibly due to the fact that LCV heuristics try to solve the problem as soon as possible, which result in more failure state. But overall, the runtime for this combination still ranks the second. This combination uses more space than NKD NKT MRV, but has less runtime. It also has the lowest time/backtracks.

On the other hand, NKD NKT MRV shows a reasonable balance among all three benchmarks, with runtime at the top, Number of Backtracks at 4th, and average time/backtrack at 2nd.

NKT NKD MRV has similar result with NKD NKT MRV. It is slightly slower, but uses slightly less space, and has the same average time/backtrack.

NKD NKT AC MRV and NKT NKD AC MRV has slower runtime among all five, but has less space complexity than the top 3. It seems to be reasonable strategy for people with less memory, but are insensitive about runtime.

PE1.txt

Success Rate=0.9949

Average Backtracks=370.3

PE2.txt

Success Rate=0.9949

Average Backtracks=421.9

PE3.txt

Success Rate=0.9846

Average Backtracks=1012

PE4.txt

Success Rate=0.9949

Average Backtracks=511.0

PE5.txt

Success Rate=0.9949

Average Backtracks=441.1

PM1.txt

Success Rate=0.6590

Average Backtracks=1297

PM2.txt

Success Rate=0.4923

Average Backtracks=1423

PM3.txt

Success Rate=0.7462

Average Backtracks=926.8

PM4.txt

Success Rate=0.4692

Average Backtracks=1479

PM5.txt

Success Rate=0.8872

Average Backtracks=632.7

PH1.txt

Success Rate=0.6282

Average Backtracks=3390

PH2.txt

Success Rate=0.8872

Average Backtracks=607.8

PH3.txt

Success Rate=0.4205

Average Backtracks=7256

PH4.txt

Success Rate=0.4282

Average Backtracks=6142

PH5.txt

Success Rate=0.03333

Average Backtracks=6.145E+4

Also looking at the 15 different test samples, we can clearly see that as the difficulty gets higher, the success rate decreases, and the average backtracks increases as a result.

# 3.1 Conclusion

In this report we discussed different combinations and their performance measure at different difficulty level. NKD NKT MRV and NKT NKD MRV are the best combinations. Because both of them have very fast runtime, but space used is not as high as NKD NKT MRV LCV. Both of them also have reasonable time/backtracks. Both of them are a balanced solution for solving Sudoku puzzle.

NKD NKT MRV LCV is excluded from our best combination because it requires the highest space complexity, but it does not trade for a better runtime (not the best). So we would eliminate it from our best combinations.

However, it should be stressed that average runtime gives a good benchmark indicator for comparing each algorithms but it does not give a complete overall picture e.g. overall state space. It says nothing about the internal processing state.

PE1.txt

Success Rate=0.9949

Average Backtracks=370.3

Top 5 Solutions:

[('NKD',), 'MRV', 'LCV'] 16 Total Time=0.026801705360412598 Backtracks=1 AvgBacktrackTime=0.02680

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=0.029026556015014648 Backtracks=3 AvgBacktrackTime=0.009676

[('NKD', 'NKT'), 'MRV', 'LCV'] 22 Total Time=0.029132080078125 Backtracks=0 AvgBacktrackTime=0

[('NKT', 'NKD'), 'None', 'None'] 25 Total Time=0.029331207275390625 Backtracks=3 AvgBacktrackTime=0.009777

[('NKD', 'NKT'), 'None', 'LCV'] 20 Total Time=0.029404854774475096 Backtracks=0 AvgBacktrackTime=0

PE2.txt

Success Rate=0.9949

Average Backtracks=421.9

Top 5 Solutions:

[('NKD', 'NKT'), 'DH', 'LCV'] 24 Total Time=0.031050467491149904 Backtracks=0 AvgBacktrackTime=0

[('NKT', 'NKD'), 'DH', 'LCV'] 30 Total Time=0.03163526058197021 Backtracks=0 AvgBacktrackTime=0

[('NKT', 'NKD'), 'DH', 'None'] 29 Total Time=0.03546211719512939 Backtracks=3 AvgBacktrackTime=0.01182

[('NKT', 'NKD', 'ArcConsistency'), 'DH', 'LCV'] 96 Total Time=0.035658979415893556 Backtracks=0 AvgBacktrackTime=0

[('NKT', 'NKD', 'ArcConsistency'), 'DH', 'None'] 95 Total Time=0.036231160163879395 Backtracks=2 AvgBacktrackTime=0.01812

PE3.txt

Success Rate=0.9846

Average Backtracks=1012

Top 5 Solutions:

[('NKT', 'NKD', 'ArcConsistency'), 'DH', 'LCV'] 96 Total Time=0.07117140293121338 Backtracks=1 AvgBacktrackTime=0.07117

[('NKD', 'NKT'), 'DH', 'LCV'] 24 Total Time=0.07760889530181884 Backtracks=7 AvgBacktrackTime=0.01109

[('NKD', 'NKT'), 'MRV', 'LCV'] 22 Total Time=0.08468484878540039 Backtracks=6 AvgBacktrackTime=0.01411

[('NKD', 'ArcConsistency', 'NKT'), 'DH', 'LCV'] 78 Total Time=0.08846092224121094 Backtracks=2 AvgBacktrackTime=0.04423

[('NKD', 'NKT', 'ArcConsistency'), 'DH', 'LCV'] 84 Total Time=0.0888350248336792 Backtracks=2 AvgBacktrackTime=0.04442

PE4.txt

Success Rate=0.9949

Average Backtracks=511.0

Top 5 Solutions:

[('NKT', 'NKD'), 'None', 'None'] 25 Total Time=0.029662132263183594 Backtracks=0 AvgBacktrackTime=0

[('NKD',), 'MRV', 'None'] 15 Total Time=0.032374095916748044 Backtracks=3 AvgBacktrackTime=0.01079

[('NKD',), 'None', 'None'] 13 Total Time=0.032509875297546384 Backtracks=2 AvgBacktrackTime=0.01625

[('NKD',), 'None', 'LCV'] 14 Total Time=0.03258726596832275 Backtracks=2 AvgBacktrackTime=0.01629

[('NKD',), 'MRV', 'LCV'] 16 Total Time=0.03311467170715332 Backtracks=2 AvgBacktrackTime=0.01656

PE5.txt

Success Rate=0.9949

Average Backtracks=441.1

Top 5 Solutions:

[('NKD',), 'None', 'LCV'] 14 Total Time=0.01836841106414795 Backtracks=1 AvgBacktrackTime=0.01837

[('NKD',), 'MRV', 'LCV'] 16 Total Time=0.01845712661743164 Backtracks=1 AvgBacktrackTime=0.01846

[('NKD',), 'MRV', 'None'] 15 Total Time=0.018604278564453125 Backtracks=6 AvgBacktrackTime=0.003101

[('NKD',), 'None', 'None'] 13 Total Time=0.018644380569458007 Backtracks=6 AvgBacktrackTime=0.003107

[('NKD', 'NKT'), 'None', 'LCV'] 20 Total Time=0.020551013946533202 Backtracks=0 AvgBacktrackTime=0

PM1.txt

Success Rate=0.6590

Average Backtracks=1297

Top 5 Solutions:

[('NKT', 'NKD'), 'None', 'LCV'] 26 Total Time=0.19849348068237305 Backtracks=6 AvgBacktrackTime=0.03308

[('NKD',), 'MRV', 'LCV'] 16 Total Time=0.20903688669204712 Backtracks=12 AvgBacktrackTime=0.01742

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=0.2196761965751648 Backtracks=7 AvgBacktrackTime=0.03138

[('NKD', 'NKT'), 'MRV', 'None'] 21 Total Time=0.22577625513076782 Backtracks=7 AvgBacktrackTime=0.03225

[('NKD', 'NKT'), 'None', 'LCV'] 20 Total Time=0.22663038969039917 Backtracks=7 AvgBacktrackTime=0.03238

PM2.txt

Success Rate=0.4923

Average Backtracks=1423

Top 5 Solutions:

[('NKD',), 'None', 'LCV'] 14 Total Time=0.3287263512611389 Backtracks=11 AvgBacktrackTime=0.02988

[('NKD',), 'MRV', 'None'] 15 Total Time=0.4427521228790283 Backtracks=25 AvgBacktrackTime=0.01771

[('NKT',), 'MRV', 'None'] 9 Total Time=0.48802924156188965 Backtracks=12 AvgBacktrackTime=0.04067

[('NKD', 'NKT'), 'None', 'LCV'] 20 Total Time=0.5270876288414001 Backtracks=1 AvgBacktrackTime=0.5271

[('NKT',), 'None', 'LCV'] 8 Total Time=0.5281691551208496 Backtracks=3 AvgBacktrackTime=0.1761

PM3.txt

Success Rate=0.7462

Average Backtracks=926.8

Top 5 Solutions:

[('NKT', 'NKD'), 'None', 'None'] 25 Total Time=0.4077579975128174 Backtracks=11 AvgBacktrackTime=0.03707

[('NKD',), 'MRV', 'LCV'] 16 Total Time=0.47135740518569946 Backtracks=26 AvgBacktrackTime=0.01813

[('NKT', 'NKD'), 'MRV', 'LCV'] 28 Total Time=0.5760911703109741 Backtracks=0 AvgBacktrackTime=0

[('NKD', 'NKT'), 'None', 'None'] 19 Total Time=0.5847625136375427 Backtracks=26 AvgBacktrackTime=0.02249

[('NKD', 'NKT'), 'MRV', 'LCV'] 22 Total Time=0.5971459746360779 Backtracks=3 AvgBacktrackTime=0.1990

PM4.txt

Success Rate=0.4692

Average Backtracks=1479

Top 5 Solutions:

[('NKD',), 'MRV', 'None'] 15 Total Time=0.36011940240859985 Backtracks=2 AvgBacktrackTime=0.1801

[('NKT', 'NKD'), 'None', 'None'] 25 Total Time=0.5979604125022888 Backtracks=2 AvgBacktrackTime=0.2990

[('NKT',), 'None', 'None'] 7 Total Time=0.616401731967926 Backtracks=13 AvgBacktrackTime=0.04742

[('NKD', 'NKT'), 'None', 'None'] 19 Total Time=0.6206061244010925 Backtracks=3 AvgBacktrackTime=0.2069

[('NKT',), 'MRV', 'None'] 9 Total Time=0.6213763952255249 Backtracks=1 AvgBacktrackTime=0.6214

PM5.txt

Success Rate=0.8872

Average Backtracks=632.7

Top 5 Solutions:

[('NKD', 'NKT'), 'None', 'None'] 19 Total Time=0.8156580924987793 Backtracks=56 AvgBacktrackTime=0.01457

[('NKD', 'NKT'), 'None', 'LCV'] 20 Total Time=0.8894836902618408 Backtracks=56 AvgBacktrackTime=0.01588

[('NKD', 'NKT', 'ArcConsistency'), 'None', 'None'] 79 Total Time=0.89835524559021 Backtracks=25 AvgBacktrackTime=0.03593

[('NKD', 'NKT', 'ArcConsistency'), 'None', 'LCV'] 80 Total Time=0.9511937499046326 Backtracks=20 AvgBacktrackTime=0.04756

[('NKD', 'ArcConsistency', 'NKT'), 'None', 'None'] 73 Total Time=0.9738292694091797 Backtracks=37 AvgBacktrackTime=0.02632

PH1.txt

Success Rate=0.6282

Average Backtracks=3390

Top 5 Solutions:

[('NKD',), 'MRV', 'None'] 15 Total Time=2.4662201404571533 Backtracks=3 AvgBacktrackTime=0.8221

[('NKD',), 'MRV', 'LCV'] 16 Total Time=2.695343255996704 Backtracks=6 AvgBacktrackTime=0.4492

[('NKT',), 'MRV', 'None'] 9 Total Time=5.573627471923828 Backtracks=4 AvgBacktrackTime=1.393

[('NKT',), 'MRV', 'LCV'] 10 Total Time=5.896251201629639 Backtracks=5 AvgBacktrackTime=1.179

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=6.796313524246216 Backtracks=3 AvgBacktrackTime=2.265

PH2.txt

Success Rate=0.8872

Average Backtracks=607.8

Top 5 Solutions:

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=0.5021519660949707 Backtracks=5 AvgBacktrackTime=0.1004

[('NKD',), 'MRV', 'None'] 15 Total Time=0.5332314968109131 Backtracks=13 AvgBacktrackTime=0.04102

[('NKT', 'NKD'), 'None', 'None'] 25 Total Time=0.5610296726226807 Backtracks=7 AvgBacktrackTime=0.08015

[('NKD', 'NKT'), 'MRV', 'None'] 21 Total Time=0.6320071220397949 Backtracks=9 AvgBacktrackTime=0.07022

[('NKT', 'NKD', 'ArcConsistency'), 'None', 'None'] 91 Total Time=0.639176607131958 Backtracks=5 AvgBacktrackTime=0.1278

PH3.txt

Success Rate=0.4205

Average Backtracks=7256

Top 5 Solutions:

[('NKD', 'NKT'), 'MRV', 'LCV'] 22 Total Time=26.31856870651245 Backtracks=597 AvgBacktrackTime=0.04408

[('NKT', 'NKD'), 'MRV', 'LCV'] 28 Total Time=29.981339931488037 Backtracks=607 AvgBacktrackTime=0.04939

[('NKD', 'NKT', 'ArcConsistency'), 'MRV', 'LCV'] 82 Total Time=39.03451180458069 Backtracks=393 AvgBacktrackTime=0.09932

[('NKT', 'NKD', 'ArcConsistency'), 'MRV', 'LCV'] 94 Total Time=39.944109201431274 Backtracks=372 AvgBacktrackTime=0.1074

[('NKD', 'ArcConsistency', 'NKT'), 'MRV', 'LCV'] 76 Total Time=42.97999358177185 Backtracks=461 AvgBacktrackTime=0.09323

PH4.txt

Success Rate=0.4282

Average Backtracks=6142

Top 5 Solutions:

[('NKD', 'NKT'), 'MRV', 'None'] 21 Total Time=20.13857412338257 Backtracks=423 AvgBacktrackTime=0.04761

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=23.094382286071777 Backtracks=453 AvgBacktrackTime=0.05098

[('NKT', 'NKD', 'ArcConsistency'), 'MRV', 'None'] 93 Total Time=26.46717929840088 Backtracks=300 AvgBacktrackTime=0.08822

[('NKD', 'ArcConsistency', 'NKT'), 'MRV', 'None'] 75 Total Time=28.15478014945984 Backtracks=342 AvgBacktrackTime=0.08232

[('NKD', 'NKT', 'ArcConsistency'), 'MRV', 'None'] 81 Total Time=28.26208472251892 Backtracks=330 AvgBacktrackTime=0.08564

PH5.txt

Success Rate=0.03333

Average Backtracks=6.145E+4

Top 5 Solutions:

[('NKD', 'NKT'), 'MRV', 'None'] 21 Total Time=215.0255572795868 Backtracks=5387 AvgBacktrackTime=0.03992

[('NKT', 'NKD'), 'MRV', 'None'] 27 Total Time=234.03949451446533 Backtracks=5200 AvgBacktrackTime=0.04501

[('NKD', 'NKT'), 'MRV', 'LCV'] 22 Total Time=237.26999354362488 Backtracks=5964 AvgBacktrackTime=0.03978

[('NKT', 'NKD', 'ArcConsistency'), 'MRV', 'None'] 93 Total Time=321.7223014831543 Backtracks=3663 AvgBacktrackTime=0.08783

[('NKD', 'NKT', 'ArcConsistency'), 'MRV', 'None'] 81 Total Time=331.62927746772766 Backtracks=3524 AvgBacktrackTime=0.09411

id numBacktracks numAssignments avgtime

PE1.txt

16 1 5 0.026801705360412598

27 3 6 0.029026556015014648

22 0 3 0.029132080078125

25 3 6 0.029331207275390625

20 0 3 0.029404854774475096

91 3 4 0.030712175369262695

93 3 4 0.030828428268432618

92 0 1 0.030959439277648926

94 0 1 0.030980515480041503

15 5 9 0.030987811088562012

13 6 11 0.03126397132873535

14 1 6 0.03131327629089355

79 3 4 0.031891679763793944

81 3 4 0.0318922758102417

80 0 1 0.03201935291290283

19 4 7 0.03216092586517334

21 4 7 0.03217062950134277

7 6 10 0.03217780590057373

8 1 5 0.03293275833129883

82 0 1 0.03304717540740967

26 1 4 0.034099030494689944

10 1 5 0.034201192855834964

28 1 4 0.0345034122467041

58 0 1 0.03494186401367187

57 3 4 0.03532693386077881

219 3 4 0.035451436042785646

56 0 1 0.035471343994140626

55 3 4 0.03551745414733887

217 3 4 0.035577917098999025

220 0 1 0.03571033477783203

218 0 1 0.035798144340515134

44 0 1 0.0361781120300293

45 3 4 0.036333656311035155

43 3 4 0.03639960289001465

280 0 1 0.03715407848358154

18 1 6 0.03715965747833252

183 3 4 0.037306571006774904

46 0 1 0.037384963035583495

181 3 4 0.037464475631713866

279 3 4 0.03747513294219971

277 3 4 0.03750441074371338

182 0 1 0.0376209020614624

267 3 4 0.03764026165008545

75 3 4 0.03768379688262939

278 0 1 0.037687039375305174

184 0 1 0.03772461414337158

268 0 1 0.03772666454315186

266 0 1 0.03786804676055908

265 3 4 0.0378986120223999

24 1 4 0.037967681884765625

9 5 9 0.03800978660583496

74 0 1 0.03812727928161621

271 3 4 0.03836114406585693

73 3 4 0.03842520713806152

76 0 1 0.03843114376068115

87 3 4 0.03848233222961426

85 3 4 0.03865506649017334

88 0 1 0.03887152671813965

259 3 4 0.03891124725341797

261 3 4 0.03891510963439941

163 3 4 0.03891522884368896

165 3 4 0.0390052318572998

164 0 1 0.039059686660766604

272 0 1 0.03910360336303711

166 0 1 0.03911008834838867

262 0 1 0.03911974430084229

30 1 4 0.03915255069732666

260 0 1 0.039222121238708496

273 3 4 0.0394406795501709

86 0 1 0.039475107192993165

274 0 1 0.03951566219329834

84 1 2 0.0417771577835083

83 1 2 0.041861224174499514

211 3 4 0.0421889066696167

59 1 2 0.042200350761413576

213 3 4 0.04230220317840576

212 0 1 0.04240729808807373

95 1 2 0.04248049259185791

96 1 2 0.042487931251525876

60 1 2 0.04250411987304688

235 3 4 0.04301695823669434

177 3 4 0.04335951805114746

178 0 1 0.04360837936401367

236 0 1 0.044003963470458984

238 0 1 0.044035911560058594

237 3 4 0.04416525363922119

199 3 4 0.04489412307739258

200 0 1 0.04498696327209473

202 0 1 0.04503767490386963

47 1 2 0.045058465003967284

201 3 4 0.045061135292053224

48 1 2 0.04519908428192139

249 3 4 0.045405459403991696

248 0 1 0.045578956604003906

77 1 2 0.045689725875854494

253 3 4 0.04569082260131836

12 1 6 0.04571301937103271

255 3 4 0.04578652381896973

254 0 1 0.045867109298706056

256 0 1 0.04587714672088623

250 0 1 0.045893383026123044

78 1 2 0.04631459712982178

327 3 4 0.04643027782440186

326 0 1 0.046623730659484865

325 3 4 0.04703340530395508

320 0 1 0.04713013172149658

90 1 2 0.04725964069366455

363 3 4 0.04738273620605469

321 3 4 0.04739582538604736

362 0 1 0.04742085933685303

361 3 4 0.04747140407562256

364 0 1 0.04747934341430664

328 0 1 0.04752993583679199

89 1 2 0.047711658477783206

319 3 4 0.04800138473510742

322 0 1 0.048061490058898926

357 3 4 0.04837298393249512

343 3 4 0.04839944839477539

355 3 4 0.04845404624938965

356 0 1 0.04858109951019287

358 0 1 0.04858837127685547

129 3 5 0.04900479316711426

380 0 1 0.04909522533416748

247 3 4 0.04923768043518066

345 3 4 0.049647164344787595

379 3 4 0.04992518424987793

382 0 1 0.05007359981536865

346 0 1 0.05007476806640625

127 3 5 0.050179553031921384

381 3 4 0.05022099018096924

135 3 5 0.0509474515914917

269 1 2 0.05119762420654297

270 1 2 0.05165741443634033

282 1 2 0.05199737548828125

221 1 2 0.05203254222869873

222 1 2 0.05211095809936524

281 1 2 0.05231385231018067

133 3 5 0.05232374668121338

167 1 2 0.052413129806518556

239 1 2 0.052515602111816405

168 1 2 0.05262460708618164

185 1 2 0.052861809730529785

344 0 1 0.05313553810119629

240 1 2 0.05315475463867188

186 1 2 0.053612256050109865

128 1 3 0.0536614179611206

130 1 3 0.0537017822265625

329 1 2 0.054856276512145995

385 3 4 0.05519900321960449

264 1 2 0.055330634117126465

263 1 2 0.05536539554595947

387 3 4 0.05539336204528809

330 1 2 0.055466651916503906

175 3 4 0.05550544261932373

203 1 2 0.05557126998901367

276 1 2 0.055631422996521

366 1 2 0.05570402145385742

275 1 2 0.055849552154541016

386 0 1 0.05589728355407715

136 1 3 0.05607705116271973

365 1 2 0.056134152412414554

23 6 9 0.056220197677612306

388 0 1 0.05633835792541504

216 1 2 0.056609487533569335

204 1 2 0.05664329528808594

323 1 2 0.057223725318908694

324 1 2 0.057304978370666504

349 3 4 0.05755648612976074

351 3 4 0.05762767791748047

134 1 3 0.05762941837310791

29 6 9 0.05771071910858154

352 0 1 0.057784318923950195

350 0 1 0.05782992839813232

243 3 4 0.058504486083984376

348 1 2 0.058553671836853026

359 1 2 0.05855658054351807

360 1 2 0.05888340473175049

242 0 1 0.058894014358520506

140 0 2 0.05916686058044433

383 1 2 0.05927610397338867

142 0 2 0.05945003032684326

251 1 2 0.05949370861053467

241 3 4 0.05956940650939942

257 1 2 0.059603428840637206

384 1 2 0.05977523326873779

258 1 2 0.05990746021270752

252 1 2 0.05993075370788574

244 0 1 0.059977364540100095

215 1 2 0.06142716407775879

153 3 5 0.061541199684143066

151 3 5 0.061707377433776855

205 3 4 0.061725497245788574

138 1 3 0.06192617416381836

206 0 1 0.06193532943725586

208 0 1 0.06199169158935547

139 4 6 0.062077999114990234

338 0 1 0.06213390827178955

141 4 6 0.06241509914398193

340 0 1 0.062488365173339847

373 3 4 0.06256027221679687

337 3 4 0.06264400482177734

333 3 4 0.06271772384643555

176 0 1 0.0627185583114624

331 3 4 0.06280930042266845

332 0 1 0.06286768913269043

367 3 4 0.06304371356964111

339 3 4 0.06305112838745117

179 1 2 0.06341519355773925

370 0 1 0.06343367099761962

334 0 1 0.06349790096282959

147 3 5 0.06356627941131592

374 0 1 0.0635674238204956

145 3 5 0.06366491317749023

369 3 4 0.06393492221832275

376 0 1 0.06398096084594726

375 3 4 0.06402640342712403

368 0 1 0.06415672302246093

157 3 5 0.0643357515335083

159 3 5 0.06441359519958496

347 1 2 0.06490259170532227

214 0 1 0.06546146869659424

154 1 3 0.06655683517456054

152 1 3 0.06657571792602539

17 10 15 0.06670403480529785

389 1 2 0.06678493022918701

390 1 2 0.06747329235076904

353 1 2 0.06751089096069336

11 8 13 0.06753690242767334

144 1 3 0.06755988597869873

354 1 2 0.06764059066772461

146 1 3 0.06783297061920165

148 1 3 0.06791150569915771

156 1 3 0.06877892017364502

115 3 6 0.06900660991668701

117 3 6 0.06936101913452149

158 1 3 0.06947047710418701

341 1 2 0.0702357292175293

335 1 2 0.07031102180480957

160 1 3 0.07042093276977539

143 2 4 0.07058329582214355

342 1 2 0.07082056999206543

209 1 2 0.0709519624710083

106 0 3 0.07096753120422364

336 1 2 0.07098872661590576

210 1 2 0.07115316390991211

378 1 2 0.07136430740356445

150 1 3 0.07152862548828125

377 1 2 0.0716259241104126

207 3 4 0.07244632244110108

372 1 2 0.07245941162109375

104 0 3 0.07283103466033936

371 1 2 0.07299704551696777

149 2 4 0.07499473094940186

105 4 7 0.07692618370056152

103 4 7 0.07707810401916504

162 2 4 0.0788712739944458

137 2 4 0.07955999374389648

124 0 3 0.07988882064819336

245 1 2 0.08030164241790771

120 1 4 0.0822566270828247

155 5 7 0.08254528045654297

123 4 7 0.08296518325805664

118 1 4 0.08416943550109864

109 3 6 0.08622260093688965

111 3 6 0.0870161771774292

132 2 4 0.08721108436584472

32 0 1 0.08810734748840332

33 3 4 0.08812007904052735

34 0 1 0.08828465938568116

161 5 7 0.08829867839813232

49 3 4 0.0893176794052124

51 3 4 0.08941547870635987

246 1 2 0.08942170143127441

50 0 1 0.08947560787200928

31 3 4 0.09002804756164551

52 0 1 0.09061338901519775

37 3 4 0.09133398532867432

39 3 4 0.09180953502655029

112 1 4 0.09202969074249268

121 4 7 0.09218344688415528

116 1 4 0.09232971668243409

110 1 4 0.09236001968383789

40 0 1 0.0925175666809082

38 0 1 0.09254217147827148

61 3 4 0.09294064044952392

69 3 4 0.09326815605163574

62 0 1 0.09401400089263916

68 0 1 0.0940922737121582

70 0 1 0.09416999816894531

67 3 4 0.09454150199890136

180 1 2 0.09462330341339112

64 0 1 0.0946258544921875

63 3 4 0.09584355354309082

114 2 5 0.0976248025894165

108 2 5 0.09988181591033936

122 0 3 0.10131356716156006

126 1 4 0.1049964189529419

101 2 6 0.10622661113739014

125 6 9 0.108634614944458

97 6 11 0.10966758728027344

113 5 8 0.11130995750427246

169 3 4 0.1114332914352417

224 0 1 0.1138277530670166

230 0 1 0.11397671699523926

229 3 4 0.11406381130218506

225 3 4 0.11417346000671387

171 3 4 0.11444706916809082

172 0 1 0.11449894905090333

195 3 4 0.11450302600860596

170 0 1 0.1146512746810913

232 0 1 0.11500842571258545

226 0 1 0.11508402824401856

196 0 1 0.11509509086608886

194 0 1 0.11513259410858154

193 3 4 0.11516728401184081

231 3 4 0.11520390510559082

189 3 4 0.11585428714752197

190 0 1 0.11598000526428223

187 3 4 0.11631176471710206

223 3 4 0.11635789871215821

188 0 1 0.11656856536865234

315 3 4 0.11751718521118164

98 1 6 0.1177229642868042

307 3 4 0.1177940845489502

309 3 4 0.11782596111297608

284 0 1 0.11871094703674316

291 3 4 0.11871888637542724

303 3 4 0.11877703666687012

304 0 1 0.11898367404937744

316 0 1 0.11913304328918457

295 3 4 0.11913652420043945

297 3 4 0.11919956207275391

314 0 1 0.11928272247314453

285 3 4 0.11945397853851318

296 0 1 0.11948621273040771

313 3 4 0.11963872909545899

302 0 1 0.11966044902801513

301 3 4 0.11972870826721191

283 3 4 0.1197425365447998

308 0 1 0.11981201171875

286 0 1 0.11992034912109376

289 3 4 0.11999833583831787

102 6 10 0.12001862525939941

292 0 1 0.12020528316497803

290 0 1 0.12021734714508056

298 0 1 0.12023491859436035

310 0 1 0.12030737400054932

100 1 6 0.1203157663345337

131 5 7 0.12102532386779785

99 6 11 0.12202043533325195

35 1 2 0.12608861923217773

36 1 2 0.12744534015655518

54 1 2 0.12752945423126222

53 1 2 0.12760601043701172

41 1 2 0.12786569595336914

42 1 2 0.12801594734191896

65 1 2 0.1301894187927246

72 1 2 0.13063399791717528

71 1 2 0.13214144706726075

66 1 2 0.13283281326293944

228 1 2 0.15057024955749512

233 1 2 0.15069503784179689

227 1 2 0.15090203285217285

197 1 2 0.15094783306121826

107 5 8 0.1511301040649414

173 1 2 0.15117616653442384

191 1 2 0.15118350982666015

192 1 2 0.15175952911376953

234 1 2 0.1517854690551758

174 1 2 0.15197224617004396

198 1 2 0.15307333469390869

311 1 2 0.1552063226699829

294 1 2 0.15547652244567872

300 1 2 0.15560688972473144

312 1 2 0.1559075355529785

305 1 2 0.15607037544250488

318 1 2 0.15650081634521484

288 1 2 0.15678656101226807

306 1 2 0.15679283142089845

317 1 2 0.1567981719970703

293 1 2 0.15682039260864258

287 1 2 0.15703139305114747

299 1 2 0.15714895725250244

119 6 9 0.16352827548980714

4 1369 1418 1.3958917379379272

2 1369 1418 1.4244360208511353

1 1556 1605 1.4454259157180787

3 1556 1605 1.4455029010772704

5 72908 72922 inf

6 65046 65058 inf

PE2.txt

24 0 3 0.031050467491149904

30 0 3 0.03163526058197021

29 3 6 0.03546211719512939

96 0 1 0.035658979415893556

95 2 3 0.036231160163879395

23 4 7 0.03697764873504639

25 3 6 0.037347841262817386

14 4 9 0.03930938243865967

13 8 13 0.040304827690124514

19 4 7 0.041376280784606936

282 0 1 0.04158926010131836

281 2 3 0.0420058012008667

26 2 5 0.04410858154296875

27 3 7 0.04441068172454834

20 2 5 0.044435977935791016

9 5 10 0.04464974403381348

7 5 10 0.044969367980957034

21 3 7 0.04566502571105957

366 0 1 0.045901918411254884

15 8 14 0.046768999099731444

365 2 3 0.04723763465881348

384 0 1 0.04773471355438232

383 2 3 0.04816503524780273

28 2 6 0.04833488464355469

78 0 2 0.048896265029907224

16 7 13 0.05050792694091797

10 5 10 0.050773239135742186

8 4 9 0.05103719234466553

84 0 2 0.051697373390197754

22 2 6 0.05185933113098144

361 3 4 0.0531832218170166

362 1 2 0.05328803062438965

90 0 2 0.05358045101165772

43 3 5 0.0541724443435669

77 4 6 0.055137467384338376

55 3 5 0.05559823513031006

56 1 3 0.05581772327423096

45 3 5 0.05616209506988525

89 2 4 0.05734853744506836

83 4 6 0.057727813720703125

91 3 5 0.058440542221069335

93 3 5 0.058492517471313475

81 3 5 0.05963566303253174

79 3 5 0.060171985626220705

87 3 5 0.060468530654907225

390 0 1 0.06048264503479004

73 3 5 0.06083126068115234

75 3 5 0.060845017433166504

389 2 3 0.06104822158813476

363 3 4 0.06219391822814942

151 3 5 0.06314325332641602

85 3 5 0.06315970420837402

153 3 5 0.06510193347930908

82 2 4 0.06528904438018798

80 2 4 0.0654627799987793

92 2 4 0.06588025093078613

264 0 2 0.06612417697906495

44 2 4 0.06660196781158448

364 1 2 0.06683814525604248

162 1 3 0.06690154075622559

152 2 4 0.06704978942871094

46 2 4 0.0674706220626831

258 0 2 0.06750717163085937

161 3 5 0.06768162250518799

157 3 5 0.06769757270812989

159 3 5 0.06778290271759033

257 2 4 0.06805498600006103

154 2 4 0.06881742477416992

88 2 4 0.06953561305999756

86 2 4 0.06985828876495362

324 0 2 0.07159159183502198

58 1 3 0.07198565006256104

270 0 2 0.07339596748352051

132 1 4 0.07413127422332763

158 2 4 0.0751767873764038

160 2 4 0.07536656856536865

57 3 5 0.0755326509475708

94 2 4 0.07571091651916503

276 0 2 0.07593379020690919

217 3 5 0.07610886096954346

220 1 3 0.07636175155639649

218 1 3 0.07644011974334716

76 2 4 0.07647206783294677

275 2 4 0.07654266357421875

219 3 5 0.07665925025939942

74 2 4 0.07671852111816406

323 4 6 0.07738213539123535

237 3 5 0.0782008409500122

236 1 3 0.0782850742340088

235 3 5 0.07843320369720459

238 1 3 0.07855949401855469

330 0 2 0.07937591075897217

122 1 4 0.08166806697845459

359 2 4 0.08250601291656494

144 1 4 0.08260691165924072

165 3 5 0.08280904293060302

163 3 5 0.0829094648361206

360 0 2 0.08384392261505128

348 0 2 0.08462245464324951

259 3 5 0.08470942974090576

12 9 15 0.08480372428894042

121 4 7 0.08483719825744629

261 3 5 0.08527538776397706

336 0 2 0.08534367084503174

342 0 2 0.0854261875152588

329 4 6 0.0854708194732666

201 3 5 0.08547871112823487

181 3 5 0.08573606014251708

199 3 5 0.08577067852020263

183 3 5 0.08651647567749024

175 3 5 0.08656907081604004

211 3 5 0.0866933822631836

177 3 5 0.08697972297668458

143 5 8 0.08828227519989014

319 3 5 0.08835461139678955

321 3 5 0.08839614391326904

133 3 6 0.0885469675064087

135 3 6 0.08862087726593018

150 0 3 0.08864240646362305

138 1 4 0.08911035060882569

277 3 5 0.08923859596252441

347 4 6 0.08945891857147217

341 3 5 0.08955144882202148

279 3 5 0.0895719051361084

127 3 6 0.08965096473693848

241 3 5 0.08965392112731933

244 1 3 0.08970918655395507

129 3 6 0.08973965644836426

242 1 3 0.08979008197784424

109 4 7 0.08982064723968505

137 3 6 0.08988480567932129

156 0 3 0.09011979103088379

103 4 7 0.09053175449371338

155 2 5 0.09055328369140625

357 3 5 0.09069409370422363

243 3 5 0.09076271057128907

355 3 5 0.09097228050231934

335 4 6 0.0912254810333252

354 0 2 0.0914273977279663

149 3 6 0.09147226810455322

249 3 5 0.09163374900817871

271 3 5 0.09202547073364258

247 3 5 0.09214565753936768

372 0 2 0.0922661542892456

381 3 5 0.09228060245513917

267 3 5 0.09231619834899903

265 3 5 0.09233958721160888

379 3 5 0.0924340009689331

255 3 5 0.09298787117004395

371 2 4 0.09303076267242431

253 3 5 0.09308979511260987

273 3 5 0.0933915138244629

345 3 5 0.09402718544006347

205 3 5 0.0940871000289917

378 0 2 0.09409539699554444

343 3 5 0.09450418949127197

207 3 5 0.09460101127624512

356 2 4 0.09486129283905029

377 2 4 0.09497642517089844

358 2 4 0.09515581130981446

325 3 5 0.09534590244293213

327 3 5 0.09557430744171143

200 2 4 0.09662470817565919

202 2 4 0.09673752784729003

387 3 5 0.09679343700408935

213 3 5 0.09690217971801758

145 3 6 0.09718508720397949

104 2 5 0.09735636711120606

147 3 6 0.09741041660308838

48 2 5 0.09746627807617188

385 3 5 0.09764487743377685

333 3 5 0.09776697158813477

353 4 6 0.09778826236724854

11 15 21 0.0979398250579834

339 3 5 0.09820263385772705

337 3 5 0.09825417995452881

331 3 5 0.09861667156219482

367 3 5 0.0988696813583374

369 3 5 0.09896485805511475

272 2 4 0.09908092021942139

351 3 5 0.09958446025848389

110 2 5 0.09968836307525634

382 2 4 0.09974243640899658

274 2 4 0.09983081817626953

141 4 7 0.09985764026641845

139 4 7 0.09999699592590332

344 2 4 0.1000377893447876

123 4 8 0.10015442371368408

380 2 4 0.10029208660125732

346 2 4 0.10033562183380126

376 1 3 0.1005401849746704

263 4 6 0.10055923461914062

349 3 5 0.10091915130615234

320 2 4 0.10180544853210449

116 1 5 0.10184276103973389

374 1 3 0.10184681415557861

375 4 6 0.10232336521148681

373 4 6 0.10244112014770508

322 2 4 0.10252189636230469

368 2 4 0.10252275466918945

115 4 8 0.10263216495513916

370 2 4 0.10265910625457764

47 6 9 0.10278563499450684

146 2 5 0.1035377025604248

184 2 4 0.10355539321899414

386 2 4 0.10360369682312012

262 2 4 0.10373809337615966

260 2 4 0.10386300086975098

148 2 5 0.1039320707321167

182 2 4 0.10408217906951904

18 21 29 0.10435378551483154

326 2 4 0.10461921691894531

388 2 4 0.10519559383392334

328 2 4 0.10537631511688232

350 2 4 0.10543363094329834

352 2 4 0.10553128719329834

71 2 4 0.1068920612335205

208 2 4 0.1071523904800415

72 0 2 0.10736098289489746

131 5 8 0.10761008262634278

134 2 5 0.10809531211853027

136 2 5 0.10824351310729981

128 2 5 0.1083679437637329

338 2 4 0.10845131874084472

130 2 5 0.10855815410614014

252 1 4 0.10857844352722168

278 2 4 0.10917081832885742

280 2 4 0.10950698852539062

140 2 5 0.1097719669342041

142 2 5 0.1101374626159668

269 4 6 0.11098308563232422

340 2 4 0.11136343479156494

268 2 4 0.1118393898010254

266 2 4 0.11205987930297852

334 2 4 0.11307566165924073

111 4 8 0.1136892557144165

176 2 4 0.1143918752670288

105 4 8 0.1146620273590088

178 2 4 0.11488373279571533

332 2 4 0.11569499969482422

256 2 4 0.11725733280181885

254 2 4 0.11734049320220948

117 4 9 0.11858553886413574

248 2 4 0.11995024681091308

124 4 8 0.12049360275268554

250 2 4 0.12081468105316162

106 2 6 0.1212761640548706

206 2 4 0.12940988540649415

112 2 6 0.1313488721847534

60 5 11 0.1359333038330078

186 2 5 0.13762738704681396

66 1 4 0.138924241065979

214 4 6 0.13972604274749756

311 2 4 0.14193837642669677

312 0 2 0.14346621036529542

33 3 5 0.14387052059173583

31 3 5 0.1439051151275635

212 4 6 0.1449521780014038

294 0 2 0.1452491521835327

293 2 4 0.14619598388671876

204 2 5 0.14658012390136718

180 2 5 0.147438383102417

108 2 7 0.1475799560546875

97 9 15 0.14785463809967042

42 2 5 0.14865269660949706

49 3 5 0.14947454929351806

69 3 5 0.15093250274658204

67 3 5 0.15113143920898436

210 2 5 0.1525482177734375

51 3 5 0.152907657623291

203 6 9 0.15304131507873536

61 3 5 0.15333864688873292

251 5 8 0.15393240451812745

63 3 5 0.15423028469085692

118 4 9 0.15499367713928222

99 11 17 0.1558846950531006

318 1 3 0.15656356811523436

317 3 5 0.1571953296661377

164 4 6 0.16150369644165039

166 4 6 0.1616208791732788

114 4 9 0.16320605278015138

65 5 8 0.16350815296173096

209 6 9 0.16496245861053466

70 2 4 0.16565349102020263

68 2 4 0.16569294929504394

37 3 5 0.1659097909927368

62 2 4 0.16809406280517578

64 2 4 0.1691129446029663

38 2 4 0.16990067958831787

40 2 4 0.16994423866271974

59 9 15 0.17084019184112548

185 6 9 0.17359187602996826

300 0 3 0.176999831199646

169 3 5 0.17815206050872803

171 3 5 0.17817997932434082

306 0 3 0.17968153953552246

41 6 9 0.18045423030853272

113 11 16 0.18113558292388915

50 4 6 0.1811460494995117

231 3 5 0.18225653171539308

229 3 5 0.18255438804626464

223 3 5 0.18403322696685792

187 3 5 0.18451111316680907

189 3 5 0.18495163917541504

309 3 5 0.1866105318069458

39 3 5 0.18681206703186035

313 3 5 0.18707473278045655

32 4 6 0.18742504119873046

315 3 5 0.1878810167312622

305 3 6 0.18805232048034667

307 3 5 0.18809871673583983

297 3 5 0.18838489055633545

301 3 5 0.1886082410812378

288 1 4 0.18887789249420167

193 3 5 0.18900444507598876

34 4 6 0.18930277824401856

295 3 5 0.18938848972320557

285 3 5 0.18962352275848388

303 3 5 0.18999273777008058

179 6 9 0.19008378982543944

291 3 5 0.19198215007781982

289 3 5 0.19208891391754152

283 3 5 0.1929176092147827

308 2 4 0.1970616102218628

198 2 5 0.1971430778503418

310 2 4 0.19778769016265868

126 9 16 0.19815378189086913

36 4 11 0.19900307655334473

107 7 12 0.20032799243927002

316 2 4 0.20042898654937744

188 2 4 0.20078365802764891

190 2 4 0.20126047134399414

299 4 7 0.2021312713623047

314 2 4 0.20220136642456055

194 2 4 0.2023214340209961

304 2 4 0.20233736038208008

196 2 4 0.20245521068572997

302 2 4 0.2026977777481079

298 2 4 0.2032475471496582

192 2 5 0.20330281257629396

125 14 21 0.20345125198364258

296 2 4 0.2052159309387207

52 4 6 0.20573134422302247

284 2 4 0.2061568021774292

290 2 4 0.20617597103118895

292 2 4 0.20654580593109131

286 2 4 0.20871517658233643

225 3 5 0.21216845512390137

287 5 8 0.21717417240142822

246 5 11 0.22175743579864501

240 5 11 0.2232210874557495

54 5 11 0.2233191967010498

195 3 5 0.22381656169891356

239 9 15 0.22533028125762938

197 6 9 0.2265084743499756

245 9 15 0.23083221912384033

191 6 9 0.23119618892669677

224 4 6 0.231375789642334

232 4 6 0.2315080165863037

230 4 6 0.23300724029541015

170 4 6 0.23508663177490235

172 4 6 0.23837168216705323

168 4 11 0.24852819442749025

53 9 15 0.24911823272705078

17 60 68 0.2501840353012085

120 14 21 0.25383286476135253

100 16 22 0.2541733980178833

226 4 6 0.2597787857055664

222 5 11 0.26596181392669677

35 12 19 0.2725386142730713

98 16 22 0.27502989768981934

216 5 11 0.28247268199920655

221 9 15 0.2849079132080078

174 4 11 0.28836522102355955

119 16 23 0.29766929149627686

234 5 11 0.30151047706604006

228 5 11 0.3184514999389648

233 9 15 0.32357680797576904

215 9 15 0.3288730621337891

173 12 19 0.3611527681350708

227 9 15 0.3632434129714966

167 12 19 0.37131333351135254

102 21 30 0.378754186630249

101 63 72 0.6966323137283326

2 2193 2244 1.7060893058776856

1 2405 2456 1.7934530973434448

4 2193 2244 1.8363178253173829

3 2405 2456 1.9056185007095336

5 78660 78679 inf

6 75324 75347 inf

PE3.txt

96 1 3 0.07117140293121338

24 7 11 0.07760889530181884

22 6 11 0.08468484878540039

78 2 4 0.08846092224121094

84 2 4 0.0888350248336792

90 2 4 0.089564847946167

21 8 13 0.08981993198394775

270 1 3 0.09014976024627686

366 1 3 0.09340317249298095

28 9 13 0.09419064521789551

384 1 3 0.09601995944976807

27 11 15 0.0982506275177002

282 1 3 0.10001335144042969

20 10 15 0.10132372379302979

16 19 28 0.10245816707611084

83 4 6 0.10299255847930908

19 12 17 0.10473220348358155

23 13 17 0.10818307399749756

95 4 6 0.11134648323059082

89 4 6 0.11158292293548584

132 3 6 0.11398105621337891

94 4 7 0.11566050052642822

324 2 4 0.1158226728439331

330 2 4 0.11661605834960938

18 22 29 0.11674795150756836

354 2 4 0.11849641799926758

156 4 7 0.11870381832122803

276 2 4 0.11880567073822021

93 6 9 0.119258713722229

26 12 16 0.11950688362121582

81 6 9 0.11982197761535644

342 2 4 0.12013750076293946

348 2 4 0.12028050422668457

360 2 4 0.12045235633850097

10 19 26 0.12123041152954102

336 2 4 0.12171380519866944

378 2 4 0.12182464599609374

25 14 18 0.12335016727447509

82 4 7 0.12377474308013917

372 2 4 0.12423894405364991

15 26 35 0.12447953224182129

252 2 4 0.1258101463317871

92 5 8 0.1263761043548584

48 4 9 0.1272282838821411

9 21 28 0.12854232788085937

150 7 10 0.1286235809326172

383 4 6 0.1287567138671875

77 6 8 0.1306208610534668

91 7 10 0.13085334300994872

390 1 3 0.13160221576690673

353 4 6 0.13181707859039307

80 8 11 0.13367271423339844

131 6 9 0.13444762229919432

347 4 6 0.1345426321029663

162 4 7 0.13520514965057373

136 4 7 0.13636267185211182

149 8 11 0.13802103996276854

14 37 46 0.1414029359817505

258 7 9 0.1417597532272339

155 5 8 0.14264800548553466

76 4 7 0.14343063831329345

371 4 6 0.1438809871673584

279 5 7 0.14579558372497559

329 4 6 0.1467803955078125

88 4 7 0.14738867282867432

13 37 46 0.14797258377075195

79 10 13 0.14840497970581054

161 6 9 0.14844605922698975

144 5 9 0.14880127906799318

264 2 5 0.14926714897155763

377 4 6 0.14974348545074462

74 8 11 0.15156140327453613

152 8 11 0.15253641605377197

86 8 11 0.15308880805969238

138 11 14 0.15344488620758057

280 4 6 0.15556249618530274

359 4 6 0.15603501796722413

362 5 7 0.15729033946990967

361 6 8 0.15750257968902587

75 6 9 0.15788400173187256

154 4 7 0.1579205274581909

341 4 6 0.1579270601272583

148 5 9 0.15796294212341308

277 6 8 0.1607612133026123

135 6 9 0.16139695644378663

160 5 9 0.16220648288726808

278 5 7 0.16245217323303224

363 5 7 0.1632920265197754

73 10 13 0.16458535194396973

364 4 6 0.16533956527709961

130 5 9 0.16585090160369872

275 4 6 0.16630179882049562

87 6 9 0.16676099300384523

346 4 7 0.16686458587646485

251 4 6 0.16686506271362306

147 7 11 0.16722946166992186

159 7 11 0.16840848922729493

323 6 8 0.16950278282165526

382 4 7 0.1697244882583618

46 5 9 0.17082064151763915

151 10 13 0.17088983058929444

269 4 6 0.17255833148956298

345 6 9 0.17290544509887695

381 6 9 0.17309751510620117

281 4 6 0.17413802146911622

153 6 9 0.174196457862854

44 9 13 0.17507271766662597

45 7 11 0.176138973236084

365 4 6 0.17635118961334229

7 30 37 0.1774755001068115

389 4 6 0.1777355909347534

268 4 7 0.17843635082244874

352 4 7 0.1789604902267456

388 4 7 0.18362855911254883

351 6 9 0.1838156223297119

335 6 8 0.1841362237930298

60 4 8 0.18542978763580323

140 9 13 0.1860892057418823

8 33 40 0.1872309923171997

262 4 7 0.18771631717681886

56 10 16 0.18781802654266358

58 6 12 0.1880058765411377

85 10 13 0.18861093521118164

129 7 11 0.18993182182312013

137 14 17 0.19114925861358642

142 5 9 0.1920860528945923

158 9 13 0.19244561195373536

380 5 8 0.19381184577941896

145 11 15 0.19466714859008788

274 4 7 0.195322585105896

386 5 8 0.19539034366607666

157 11 15 0.19549939632415772

114 5 11 0.19748327732086182

385 7 10 0.19779202938079835

387 6 9 0.19846341609954835

222 3 7 0.19859089851379394

379 7 10 0.19886577129364014

328 4 7 0.19898948669433594

344 8 11 0.19929811954498292

267 6 9 0.19933793544769288

43 11 15 0.19937992095947266

246 4 8 0.20097832679748534

134 11 14 0.20198535919189453

139 11 15 0.20297846794128419

57 7 13 0.20372767448425294

146 9 13 0.20430335998535157

257 11 13 0.20448520183563232

320 8 11 0.20467061996459962

59 13 17 0.20502879619598388

343 10 13 0.20513131618499755

55 11 17 0.20553443431854249

141 7 11 0.20612645149230957

356 8 11 0.20630402565002443

261 6 9 0.20636317729949952

376 4 7 0.2066498041152954

326 8 11 0.2067075252532959

370 4 7 0.2067903995513916

204 4 9 0.2077256202697754

322 4 7 0.2091764450073242

334 4 7 0.20926389694213868

375 6 9 0.21051480770111083

66 2 4 0.21058270931243897

350 8 11 0.21143751144409179

327 6 9 0.21366581916809083

263 5 8 0.21380262374877929

340 4 7 0.2146070957183838

250 4 7 0.2160959482192993

349 10 13 0.21656451225280762

273 6 9 0.21687662601470947

240 4 8 0.21706795692443848

110 10 15 0.21769344806671143

17 54 61 0.21844875812530518

358 4 7 0.22039973735809326

325 10 13 0.2216259002685547

109 12 17 0.2216965913772583

133 13 16 0.22320933341979982

333 6 9 0.22344250679016114

355 10 13 0.2240278720855713

210 4 9 0.22469837665557862

143 12 16 0.22469871044158934

321 6 9 0.22544682025909424

374 8 11 0.22796595096588135

332 8 11 0.22966675758361815

339 6 9 0.22975220680236816

180 9 14 0.23102619647979736

126 11 17 0.23120596408843994

373 10 13 0.2312732458114624

368 8 11 0.23226542472839357

369 6 9 0.23278684616088868

112 10 15 0.23372337818145753

338 8 11 0.2341695547103882

249 6 9 0.2345573663711548

256 4 7 0.23575315475463868

186 4 9 0.23583874702453614

220 5 10 0.23723843097686767

111 12 17 0.2375049591064453

357 6 9 0.2385335922241211

108 9 16 0.23982322216033936

331 10 13 0.24064807891845702

65 4 6 0.24196577072143555

128 9 13 0.24239468574523926

72 7 9 0.24292368888854982

106 8 13 0.2442692756652832

184 5 9 0.2459186792373657

260 8 11 0.24721715450286866

312 2 4 0.24816272258758545

200 9 13 0.24896302223205566

122 12 19 0.2502651929855347

266 8 11 0.25153088569641113

124 12 19 0.252584433555603

272 8 11 0.2532223701477051

208 5 9 0.25394952297210693

199 11 15 0.2540577411651611

288 2 4 0.25830416679382323

207 7 11 0.25897064208984377

47 14 19 0.2591459512710571

300 1 4 0.26013329029083254

255 6 9 0.2604128122329712

367 10 13 0.26228082180023193

105 10 15 0.2629427194595337

319 10 13 0.2636821746826172

127 11 15 0.2649801015853882

206 9 13 0.2673851251602173

202 5 9 0.267819881439209

306 1 4 0.26889724731445314

183 7 11 0.26926138401031496

259 10 13 0.2698479413986206

239 13 17 0.27068166732788085

201 7 11 0.2721707344055176

104 13 18 0.27413644790649416

271 10 13 0.27559099197387693

205 11 15 0.27567033767700194

219 7 12 0.2757178783416748

265 10 13 0.2762789011001587

118 11 18 0.2838183879852295

245 13 17 0.2840005874633789

294 7 9 0.28708620071411134

64 4 7 0.28789222240448

311 4 6 0.29069886207580564

244 6 12 0.29449100494384767

254 8 11 0.2947155714035034

103 15 20 0.294992995262146

218 9 14 0.29511702060699463

71 11 13 0.296604323387146

123 16 23 0.2968443870544434

42 9 14 0.3012735366821289

248 8 11 0.3019015550613403

121 16 23 0.30206823348999023

337 10 13 0.30234265327453613

243 7 13 0.3102216958999634

63 6 9 0.3113051652908325

287 4 6 0.31231591701507566

242 10 16 0.31279079914093016

182 9 13 0.31497583389282224

238 6 12 0.31602771282196046

116 16 23 0.3179784774780273

69 6 9 0.3196955442428589

117 14 21 0.3212980031967163

247 10 13 0.32309832572937014

70 4 7 0.3248340845108032

241 11 17 0.3251250505447388

236 10 16 0.32573623657226564

214 6 12 0.3258944034576416

253 10 13 0.32697296142578125

299 4 7 0.3272432804107666

178 7 11 0.32963905334472654

166 8 14 0.3305029392242432

217 11 16 0.33142411708831787

235 11 17 0.3327662467956543

198 2 7 0.33319265842437745

120 12 18 0.3336233615875244

221 10 14 0.335878586769104

181 11 15 0.3388496398925781

62 8 11 0.3405378103256226

305 4 7 0.34071362018585205

40 7 11 0.3485572814941406

237 7 13 0.3486107587814331

34 8 14 0.34966650009155276

54 10 14 0.3498093128204346

297 6 9 0.3522561311721802

298 4 7 0.35242476463317873

115 19 26 0.3538783311843872

52 6 12 0.3539444446563721

216 10 14 0.3592667818069458

67 10 13 0.3621447324752808

177 9 13 0.362820029258728

303 6 9 0.363059401512146

39 9 13 0.3634394645690918

100 27 36 0.3662501335144043

209 14 19 0.3666397571563721

176 12 16 0.3681962251663208

293 11 13 0.36954483985900877

286 4 7 0.3715730428695679

318 2 4 0.3732358694076538

68 8 11 0.37391085624694825

38 12 16 0.3739470958709717

316 4 7 0.3759160041809082

203 14 19 0.3759209394454956

315 6 9 0.37619116306304934

310 4 7 0.37619481086730955

113 27 33 0.37916676998138427

292 4 7 0.38181581497192385

234 6 10 0.3841046094894409

285 6 9 0.3863887548446655

317 4 6 0.3868914842605591

61 10 13 0.3895402431488037

213 9 15 0.389874267578125

125 35 41 0.3911146640777588

304 4 7 0.39257566928863524

309 6 9 0.3931419849395752

37 14 18 0.40009872913360595

291 6 9 0.40021772384643556

33 13 19 0.40059828758239746

192 9 14 0.40069596767425536

175 14 18 0.4034374952316284

314 8 11 0.40357327461242676

51 9 15 0.4062514305114746

53 16 20 0.4078545331954956

308 8 11 0.4089259386062622

296 8 11 0.4089966297149658

295 10 13 0.4099215745925903

233 9 13 0.410141134262085

301 10 13 0.4110350847244263

290 8 11 0.4120307445526123

302 8 11 0.41522490978240967

212 10 16 0.4178072690963745

313 10 13 0.41822080612182616

49 13 19 0.42093071937561033

284 8 11 0.4218477487564087

215 16 20 0.4246896028518677

196 7 11 0.42633633613586425

185 13 18 0.4267436981201172

119 19 25 0.42684307098388674

307 10 13 0.4276764154434204

289 10 13 0.4295126676559448

50 10 16 0.430926251411438

195 9 13 0.4382974624633789

232 6 12 0.4513918399810791

228 10 14 0.4553198337554932

165 13 19 0.4566332817077637

194 9 13 0.46376843452453614

172 8 14 0.4638059616088867

226 6 12 0.4658960342407227

283 10 13 0.468841552734375

189 9 13 0.4697753667831421

193 11 15 0.47634067535400393

190 7 11 0.4784637212753296

211 13 19 0.4878385066986084

32 24 30 0.4954270362854004

230 10 16 0.4966102600097656

231 9 15 0.506748366355896

188 12 16 0.5077971458435059

164 24 30 0.5079392433166504

225 9 15 0.5190767765045166

179 25 30 0.5248961448669434

187 14 18 0.5286231279373169

227 16 20 0.5313356876373291

41 25 30 0.5471906185150146

171 13 19 0.5536277770996094

229 13 19 0.5545598268508911

107 33 40 0.5576889991760254

99 42 51 0.5723166942596436

30 73 77 0.5742180585861206

223 13 19 0.5755822896957398

197 16 21 0.584390926361084

29 80 84 0.5951415538787842

31 29 35 0.60729820728302

224 10 16 0.6095540761947632

163 29 35 0.6445582389831543

97 69 78 0.6607578277587891

170 24 30 0.6739705324172973

191 25 30 0.6880242586135864

98 72 81 0.7289843797683716

11 152 160 0.7833784103393555

12 157 165 0.8158895969390869

169 29 35 0.8310133695602417

36 862 869 10.215493512153625

35 1024 1031 11.920273423194885

174 862 869 14.025382089614869

173 1024 1031 16.6560179233551

168 862 869 16.68042986392975

167 1024 1031 19.5457284450531

102 2372 2384 20.973235368728638

101 3083 3095 27.381626749038695

1 60701 60731 inf

2 59948 59979 inf

3 62937 62964 inf

4 58671 58696 inf

5 67410 67434 inf

6 70100 70121 inf

PE4.txt

25 0 3 0.029662132263183594

15 3 9 0.032374095916748044

13 2 8 0.032509875297546384

14 2 8 0.03258726596832275

16 2 8 0.03311467170715332

27 0 3 0.03551492691040039

91 0 1 0.03610327243804932

93 0 1 0.03640668392181397

94 0 1 0.03645768165588379

92 0 1 0.03648877143859863

19 2 6 0.036545825004577634

22 1 5 0.03769378662109375

265 0 1 0.039646339416503903

10 0 6 0.039731740951538086

267 0 1 0.03977832794189453

45 0 1 0.0398005485534668

43 0 1 0.039827942848205566

44 0 1 0.04007422924041748

7 2 7 0.04009096622467041

268 0 1 0.04014673233032227

46 0 1 0.04020218849182129

266 0 1 0.040322613716125486

21 2 6 0.0404951810836792

219 0 1 0.04107844829559326

217 0 1 0.04108939170837402

218 0 1 0.04136447906494141

220 0 1 0.041421031951904295

85 0 1 0.04192848205566406

87 0 1 0.042058682441711424

86 0 1 0.04238770008087158

88 0 1 0.04243144989013672

9 2 8 0.04321188926696777

8 3 8 0.0441253662109375

259 0 1 0.044211316108703616

261 0 1 0.04431736469268799

277 0 1 0.044358444213867185

279 0 1 0.044364404678344724

280 0 1 0.04462718963623047

262 0 1 0.04465773105621338

260 0 1 0.044808816909790036

278 0 1 0.04487612247467041

55 0 2 0.045068764686584474

26 0 3 0.04542629718780518

361 0 1 0.046048903465271

363 0 1 0.0463062047958374

364 0 1 0.04645800590515137

362 0 1 0.04650745391845703

199 0 1 0.04676275253295899

202 0 1 0.046937870979309085

81 0 2 0.04725103378295899

379 0 1 0.04774441719055176

28 0 3 0.04778268337249756

381 0 1 0.047890233993530276

382 0 1 0.04804222583770752

380 0 1 0.04814586639404297

200 0 1 0.04831793308258057

355 0 1 0.048671507835388185

56 1 3 0.04869375228881836

357 0 1 0.04890151023864746

356 0 1 0.04925200939178467

358 0 1 0.04935281276702881

57 0 2 0.04983632564544678

82 1 3 0.05111868381500244

80 1 3 0.05151591300964355

73 0 2 0.05268385410308838

151 0 2 0.05573801994323731

153 0 2 0.05606629848480225

152 0 2 0.056324315071105954

76 1 3 0.05633199214935303

154 0 2 0.05643312931060791

20 3 7 0.057920217514038086

96 2 3 0.05911996364593506

157 0 2 0.06023216247558594

159 0 2 0.06036367416381836

158 0 2 0.060630273818969724

95 7 8 0.06075351238250733

160 0 2 0.060775017738342284

387 0 1 0.06081314086914062

211 0 2 0.06093099117279053

213 0 2 0.061002564430236814

212 0 2 0.061087393760681154

385 0 1 0.061088061332702635

386 0 1 0.06134018898010254

388 0 1 0.06137216091156006

214 0 2 0.06140780448913574

207 0 1 0.06452624797821045

205 0 1 0.06453518867492676

201 0 1 0.0647508144378662

206 0 1 0.06496629714965821

208 0 1 0.06502368450164794

271 0 2 0.06506295204162597

273 0 2 0.06518683433532715

79 0 2 0.06520285606384277

274 0 2 0.06544017791748047

272 0 2 0.06559970378875732

29 10 13 0.06636288166046142

373 0 1 0.06658732891082764

367 0 1 0.06663782596588134

369 0 1 0.06668765544891357

375 0 1 0.06677229404449463

368 0 1 0.06695888042449952

370 0 1 0.06701252460479737

374 0 1 0.06708669662475586

74 1 3 0.06711983680725098

376 0 1 0.06727373600006104

238 1 3 0.06826355457305908

253 0 2 0.06843221187591553

255 0 2 0.06844635009765625

254 0 2 0.06865952014923096

256 0 2 0.06873147487640381

249 1 3 0.06911590099334716

250 0 2 0.06932001113891602

325 0 2 0.06942734718322754

58 1 3 0.06943972110748291

247 0 2 0.06944444179534912

248 0 2 0.06965794563293456

237 0 2 0.06987495422363281

327 0 2 0.06992232799530029

18 10 15 0.07025623321533203

23 12 15 0.07026135921478271

270 2 3 0.07039592266082764

321 0 2 0.07201950550079346

269 7 8 0.07209393978118897

319 0 2 0.07215561866760253

133 0 3 0.0726280689239502

134 0 3 0.07274053096771241

326 1 3 0.07337779998779297

328 1 3 0.07373580932617188

384 2 3 0.07462959289550782

366 2 3 0.07480666637420655

345 0 2 0.07481932640075684

320 1 3 0.07532596588134766

127 1 4 0.07553455829620362

48 2 3 0.07555215358734131

75 0 2 0.07564797401428222

129 2 5 0.07577483654022217

322 1 3 0.07596364021301269

24 6 9 0.07612709999084473

130 1 4 0.07615861892700196

383 7 8 0.07630951404571533

128 1 4 0.07639403343200683

365 7 8 0.07659175395965576

204 2 3 0.07677185535430908

90 2 3 0.07734403610229493

47 7 8 0.07737953662872314

235 0 2 0.07782855033874511

141 0 3 0.07809045314788818

282 2 3 0.07816548347473144

203 7 8 0.07821121215820312

222 2 3 0.07824208736419677

17 18 23 0.07855169773101807

346 1 3 0.07860057353973389

360 2 3 0.07863225936889648

89 7 8 0.07910912036895752

221 7 8 0.0801584243774414

359 7 8 0.08064959049224854

264 2 3 0.08150279521942139

241 0 2 0.08151388168334961

243 0 2 0.08164618015289307

281 7 8 0.08164854049682617

135 0 3 0.08192284107208252

84 5 6 0.08212459087371826

330 2 3 0.08219945430755615

117 1 5 0.08279280662536621

60 5 6 0.08281872272491456

118 1 5 0.08322436809539795

263 7 8 0.0834087610244751

145 0 3 0.08344831466674804

349 0 2 0.08376576900482177

83 10 11 0.0837975263595581

147 0 3 0.0838533878326416

390 2 3 0.08392665386199952

329 7 8 0.08403053283691406

59 10 11 0.08429136276245117

244 1 3 0.08505182266235352

236 1 3 0.08513567447662354

242 1 3 0.08524572849273682

389 7 8 0.08551266193389892

139 0 3 0.0855879545211792

148 1 4 0.08752496242523193

146 1 4 0.08772830963134766

350 1 3 0.0877542495727539

30 3 6 0.08783597946166992

343 0 2 0.0878591775894165

116 1 5 0.08799128532409668

142 1 4 0.08803038597106934

115 2 6 0.0886300802230835

337 0 2 0.08894116878509521

333 0 2 0.08905191421508789

339 0 2 0.08909282684326172

331 0 2 0.08929412364959717

156 2 4 0.08946809768676758

276 2 3 0.09076504707336426

162 2 4 0.09114367961883545

155 7 9 0.09153399467468262

352 1 3 0.09221775531768799

275 7 8 0.09242558479309082

338 1 3 0.09275414943695068

332 1 3 0.0928624153137207

334 1 3 0.09287729263305664

340 1 3 0.09291496276855468

161 7 9 0.09309580326080322

121 2 6 0.09566335678100586

124 1 5 0.09594364166259765

240 5 6 0.09706065654754639

344 1 3 0.09708847999572753

140 1 4 0.0986363172531128

123 2 6 0.09863722324371338

215 7 8 0.09885821342468262

239 10 11 0.09892506599426269

216 2 3 0.09938173294067383

11 19 24 0.09981186389923095

122 3 7 0.09989273548126221

252 2 3 0.10028445720672607

210 2 3 0.10035505294799804

209 7 8 0.10191242694854737

251 7 8 0.1019564151763916

372 2 3 0.10213429927825927

378 2 3 0.10240039825439454

377 7 8 0.10376040935516358

371 7 8 0.10383291244506836

351 0 2 0.10451793670654297

347 10 11 0.10505297183990478

342 2 3 0.10574066638946533

49 0 2 0.10683412551879883

51 0 2 0.10695323944091797

136 0 3 0.10700180530548095

50 0 2 0.1070544958114624

52 0 2 0.10741405487060547

341 7 8 0.10742592811584473

112 0 4 0.10789992809295654

180 5 6 0.10798764228820801

111 1 5 0.10804393291473388

109 1 5 0.10818293094635009

78 5 6 0.1089409589767456

324 5 6 0.10956571102142335

61 0 2 0.10958640575408936

179 10 11 0.1098665714263916

63 1 3 0.1101952075958252

77 10 11 0.11029458045959473

64 0 2 0.110321044921875

132 2 5 0.11040689945220947

323 10 11 0.11085376739501954

131 7 10 0.11207630634307861

258 5 6 0.11260735988616943

69 0 2 0.11386051177978515

67 0 2 0.11401894092559814

68 0 2 0.11438360214233398

257 10 11 0.11446642875671387

70 0 2 0.11454944610595703

137 8 11 0.1149301528930664

181 0 4 0.11672685146331788

183 0 4 0.11708724498748779

114 4 7 0.11838321685791016

177 0 4 0.11842586994171142

110 0 4 0.11912093162536622

125 12 15 0.11930327415466309

126 8 11 0.12129743099212646

354 5 6 0.12253096103668212

246 5 6 0.12269492149353027

106 0 6 0.12307703495025635

12 21 26 0.12360508441925049

353 10 11 0.12370455265045166

245 10 11 0.1240858793258667

103 1 7 0.12412877082824707

119 12 15 0.1272350311279297

113 11 14 0.12787206172943116

138 3 6 0.12836248874664308

184 1 5 0.1294034957885742

178 1 5 0.13143472671508788

62 0 2 0.13498878479003906

39 0 4 0.1366428852081299

348 5 6 0.13778309822082518

186 5 6 0.13793203830718995

150 6 9 0.13852102756500245

120 8 11 0.13855810165405275

185 10 11 0.13922998905181885

149 11 14 0.1404825210571289

229 0 2 0.14056181907653809

230 0 2 0.14062438011169434

231 1 3 0.14089736938476563

232 0 2 0.14134790897369384

225 0 2 0.14315037727355956

224 0 2 0.1432873010635376

223 0 2 0.14338428974151612

226 0 2 0.14370734691619874

295 0 2 0.14527535438537598

297 0 2 0.14540345668792726

298 0 2 0.14582860469818115

296 0 2 0.1458331823348999

286 0 2 0.14615979194641113

175 0 5 0.14686148166656493

303 0 2 0.14785993099212646

313 0 2 0.14791016578674315

314 0 2 0.14794325828552246

302 0 2 0.14795241355895997

315 1 3 0.14802029132843017

316 0 2 0.14817373752593993

336 5 6 0.14842331409454346

105 2 8 0.1484511137008667

304 0 2 0.14847736358642577

40 1 5 0.1488259792327881

144 5 8 0.1490699291229248

335 10 11 0.150404691696167

289 0 2 0.1506695032119751

307 0 2 0.15069181919097902

309 0 2 0.15071334838867187

291 0 2 0.15071489810943603

292 0 2 0.15099649429321288

308 0 2 0.15100114345550536

290 0 2 0.15105257034301758

37 0 5 0.15114197731018067

310 0 2 0.15136494636535644

285 1 3 0.15235514640808107

182 2 6 0.16527221202850342

143 11 14 0.16706562042236328

301 0 2 0.16920959949493408

38 2 7 0.18166508674621581

284 0 2 0.18606104850769042

283 0 2 0.18832757472991943

33 1 10 0.18922510147094726

176 2 7 0.1923433303833008

189 0 4 0.1983187437057495

195 0 4 0.19855968952178954

104 5 11 0.19875516891479492

190 1 5 0.2105241298675537

107 16 20 0.21067371368408203

99 2 13 0.2108135223388672

196 1 5 0.2116788625717163

54 2 3 0.2195829391479492

53 7 8 0.2206395149230957

187 0 5 0.22754194736480712

108 10 14 0.2284173011779785

193 0 5 0.2284635305404663

66 2 3 0.2302746057510376

31 4 13 0.2411219835281372

97 7 17 0.24187016487121582

42 5 6 0.24264950752258302

41 10 11 0.24427275657653807

306 2 3 0.24696650505065917

300 2 3 0.24700703620910644

72 5 6 0.2473151206970215

198 2 3 0.24776871204376222

165 1 10 0.2480018377304077

305 7 8 0.2487565517425537

299 7 8 0.24902172088623048

71 10 11 0.2490788459777832

197 7 8 0.24963858127593994

312 2 3 0.2503121137619019

311 7 8 0.25225727558135985

318 2 3 0.2522923231124878

317 7 8 0.25532217025756837

188 2 7 0.2580406904220581

228 2 3 0.25903656482696535

227 7 8 0.25990250110626223

288 2 3 0.260990309715271

287 7 8 0.26279873847961427

65 7 8 0.2636983871459961

34 7 16 0.267358660697937

233 7 8 0.2766536235809326

234 2 3 0.27767832279205323

294 5 6 0.2879952430725098

293 10 11 0.28904526233673095

32 6 15 0.289579439163208

100 9 20 0.30072975158691406

194 2 7 0.3016502380371094

98 10 20 0.302040696144104

192 5 6 0.3172022819519043

163 4 13 0.3212155342102051

168 13 14 0.3222372055053711

167 18 19 0.3239546537399292

171 1 10 0.3262173652648926

164 6 15 0.3359302759170532

191 10 11 0.3379414796829224

102 22 28 0.3591397762298584

36 13 14 0.364650297164917

35 18 19 0.36680312156677247

169 4 13 0.3787759065628052

166 7 16 0.3816763162612915

101 30 36 0.3951585292816162

170 6 15 0.4000321626663208

172 7 16 0.4462935209274292

174 13 14 0.4550731897354126

173 18 19 0.45552849769592285

1 14897 14948 13.958398342132568

3 14897 14948 14.312536597251892

2 14689 14740 14.484749054908752

4 14689 14740 14.761252808570863

5 71546 71569 inf

6 67492 67517 inf

PE5.txt

14 1 4 0.01836841106414795

16 1 4 0.01845712661743164

15 6 9 0.018604278564453125

13 6 9 0.018644380569458007

20 0 2 0.020551013946533202

22 0 2 0.02068660259246826

25 4 6 0.02081131935119629

27 4 6 0.020889949798583985

21 5 7 0.020965266227722167

19 5 7 0.02102506160736084

26 0 2 0.021100354194641114

28 0 2 0.021155643463134765

8 0 3 0.021915149688720704

10 0 3 0.02208998203277588

9 5 8 0.02221388816833496

7 5 8 0.02224249839782715

57 4 5 0.025582480430603027

56 0 1 0.026203560829162597

58 0 1 0.026289653778076173

55 4 5 0.026441287994384766

79 4 5 0.02894144058227539

94 0 1 0.02909252643585205

43 4 5 0.029100561141967775

80 0 1 0.029121041297912598

44 0 1 0.029188036918640137

91 4 5 0.029197144508361816

93 4 5 0.029426193237304686

75 4 5 0.029807233810424806

73 4 5 0.02986886501312256

74 0 1 0.02995901107788086

92 0 1 0.029988861083984374

76 0 1 0.030002427101135255

85 4 5 0.031166839599609374

86 0 1 0.031293058395385744

166 0 1 0.03169851303100586

163 4 5 0.031855320930480956

164 0 1 0.032074785232543944

165 4 5 0.03215484619140625

219 4 5 0.03234496116638184

217 4 5 0.03258645534515381

220 0 1 0.03260958194732666

218 0 1 0.03299195766448974

81 4 5 0.033017945289611814

212 0 1 0.03321120738983154

211 4 5 0.03331472873687744

213 4 5 0.03341679573059082

214 0 1 0.03448452949523926

45 4 5 0.03497488498687744

261 4 5 0.035129356384277347

265 4 5 0.035225439071655276

259 4 5 0.035276269912719725

175 4 5 0.03530299663543701

267 4 5 0.035342955589294435

266 0 1 0.035382318496704104

268 0 1 0.03545498847961426

262 0 1 0.035484695434570314

178 0 1 0.03557229042053223

141 4 5 0.03566298484802246

139 4 5 0.03566761016845703

260 0 1 0.0356900691986084

142 0 1 0.03572068214416504

140 0 1 0.03586688041687012

249 4 5 0.03627188205718994

271 4 5 0.03633327484130859

253 4 5 0.03635437488555908

248 0 1 0.03639564514160156

279 4 5 0.036404991149902345

273 4 5 0.03640990257263184

255 4 5 0.03651506900787353

274 0 1 0.03657588958740234

247 4 5 0.0365891695022583

250 0 1 0.03660218715667725

278 0 1 0.03661048412322998

46 0 1 0.03663897514343262

272 0 1 0.03667151927947998

256 0 1 0.03674635887145996

280 0 1 0.03678297996520996

254 0 1 0.03689076900482178

82 0 1 0.036913061141967775

146 0 1 0.03782422542572021

87 4 5 0.038829803466796875

24 3 5 0.03938591480255127

88 0 1 0.03970603942871094

23 8 10 0.03991489410400391

147 4 5 0.04115939140319824

183 4 5 0.041605472564697266

176 0 1 0.04166107177734375

181 4 5 0.04197015762329102

30 2 4 0.04199948310852051

29 7 9 0.042548084259033205

17 10 13 0.04356203079223633

18 5 8 0.04381546974182129

199 4 5 0.04411890506744385

200 0 1 0.04433097839355469

201 4 5 0.04438498020172119

115 4 6 0.04439623355865478

202 0 1 0.04452829360961914

116 0 2 0.044643735885620116

117 4 6 0.04474022388458252

118 0 2 0.04479806423187256

184 0 1 0.045354914665222165

103 4 6 0.04625327587127685

105 4 6 0.04632635116577148

362 0 1 0.04639570713043213

355 4 5 0.04643843173980713

106 0 2 0.04663259983062744

177 4 5 0.04679815769195557

104 0 2 0.04689481258392334

363 4 5 0.046999239921569826

235 4 5 0.04700455665588379

236 0 1 0.04700920581817627

237 4 5 0.047044682502746585

356 0 1 0.0473588228225708

357 4 5 0.047521448135375975

364 0 1 0.04762756824493408

361 4 5 0.04763627052307129

358 0 1 0.047681355476379396

238 0 1 0.04809291362762451

84 2 3 0.04850270748138428

83 7 8 0.04911656379699707

242 0 1 0.05001180171966553

277 4 5 0.05014510154724121

379 4 5 0.05031528472900391

327 4 5 0.05042872428894043

325 4 5 0.050527429580688475

328 0 1 0.05067892074584961

96 2 3 0.05067963600158691

380 0 1 0.050712418556213376

382 0 1 0.05073490142822266

11 9 12 0.050800538063049315

241 4 5 0.05090909004211426

326 0 1 0.050921964645385745

381 4 5 0.05112481117248535

243 4 5 0.05113062858581543

244 0 1 0.05122621059417724

95 7 8 0.05129737854003906

319 4 5 0.05135369300842285

320 0 1 0.0517916202545166

128 0 2 0.05187559127807617

321 4 5 0.05189228057861328

322 0 1 0.051955771446228025

343 4 5 0.05212669372558594

127 5 7 0.052128839492797854

130 0 2 0.05222773551940918

134 0 2 0.05225415229797363

129 5 7 0.052338910102844236

207 4 5 0.052376174926757814

133 5 7 0.05243396759033203

205 4 5 0.05248401165008545

208 0 1 0.05255513191223145

59 7 8 0.05256180763244629

206 0 1 0.05262753963470459

387 4 5 0.05297753810882568

135 5 7 0.053006768226623535

350 0 1 0.05323319435119629

331 4 5 0.053306412696838376

60 2 3 0.053307509422302245

351 4 5 0.053311848640441896

386 0 1 0.05332205295562744

333 4 5 0.05356590747833252

352 0 1 0.053648066520690915

349 4 5 0.053690528869628905

12 5 8 0.05373430252075195

136 0 2 0.05380423069000244

344 0 1 0.05383455753326416

345 4 5 0.053939652442932126

346 0 1 0.05397439002990723

332 0 1 0.0540508508682251

334 0 1 0.05425806045532226

375 4 5 0.05425961017608642

373 4 5 0.054383587837219236

337 4 5 0.054409122467041014

376 0 1 0.054430580139160155

388 0 1 0.05447237491607666

374 0 1 0.05460233688354492

385 4 5 0.05461504459381104

339 4 5 0.054652857780456546

338 0 1 0.054704689979553224

340 0 1 0.054712653160095215

369 4 5 0.055054664611816406

370 0 1 0.055313849449157716

367 4 5 0.055727791786193845

368 0 1 0.05602371692657471

145 4 5 0.05628035068511963

150 2 3 0.05680141448974609

78 2 3 0.057157254219055174

77 7 8 0.057509660720825195

149 7 8 0.05751554965972901

111 4 6 0.05831644535064697

112 0 2 0.058508896827697755

109 4 6 0.05853128433227539

110 0 2 0.05862417221069336

90 2 3 0.05917444229125977

89 7 8 0.059967875480651855

144 2 3 0.060528898239135744

124 0 2 0.06063809394836426

148 0 1 0.06073782444000244

122 0 2 0.060748171806335446

123 5 7 0.06092503070831299

143 7 8 0.060948634147644044

121 5 7 0.06095786094665527

182 0 1 0.06099791526794433

221 7 8 0.06137087345123291

222 2 3 0.06195528507232666

185 7 8 0.062497735023498535

186 2 3 0.06250364780426025

98 0 3 0.06354138851165772

100 0 3 0.06359579563140869

99 5 8 0.06385149955749511

270 2 3 0.06423139572143555

97 5 8 0.06437883377075196

263 7 8 0.06441330909729004

264 2 3 0.06448791027069092

152 0 2 0.0645972728729248

153 5 7 0.06476609706878662

154 0 2 0.0648496389389038

269 7 8 0.06486771106719971

151 5 7 0.06489307880401611

47 7 8 0.06528465747833252

168 2 3 0.06608474254608154

282 2 3 0.06627302169799805

167 7 8 0.06673476696014405

281 7 8 0.0668029546737671

275 7 8 0.06683003902435303

160 0 2 0.06711571216583252

159 5 7 0.06728899478912354

216 2 3 0.0683788537979126

158 0 2 0.06870152950286865

157 5 7 0.06912295818328858

215 7 8 0.07060525417327881

258 2 3 0.0713874101638794

276 2 3 0.07140717506408692

252 2 3 0.0716782569885254

179 7 8 0.07174949645996094

240 2 3 0.07179837226867676

257 7 8 0.0719604730606079

251 7 8 0.07216088771820069

239 7 8 0.07227609157562256

120 2 4 0.07230463027954101

383 7 8 0.07232367992401123

348 2 3 0.07255144119262695

384 2 3 0.07272608280181884

119 7 9 0.07291321754455567

204 2 3 0.07292535305023193

354 2 3 0.07311575412750244

347 7 8 0.07327706813812256

353 7 8 0.07342870235443115

108 2 4 0.07421326637268066

203 7 8 0.07428295612335205

390 2 3 0.07436776161193848

330 2 3 0.07457203865051269

107 7 9 0.07480435371398926

389 7 8 0.07488472461700439

329 7 8 0.07505178451538086

324 2 3 0.07562611103057862

246 2 3 0.07595255374908447

366 2 3 0.07616600990295411

360 2 3 0.07652077674865723

323 7 8 0.07658588886260986

245 7 8 0.07666606903076172

359 7 8 0.07709441184997559

365 7 8 0.07715964317321777

48 2 3 0.07811222076416016

210 2 3 0.08021752834320069

32 0 1 0.08052868843078613

33 4 5 0.08056459426879883

209 7 8 0.08063852787017822

34 0 1 0.08076322078704834

132 2 4 0.08090693950653076

342 2 3 0.08130278587341308

31 4 5 0.08132917881011963

335 7 8 0.08136641979217529

336 2 3 0.08167476654052734

131 7 9 0.08187687397003174

341 7 8 0.08207111358642578

377 7 8 0.08223333358764648

378 2 3 0.08294949531555176

138 2 4 0.08328795433044434

40 0 1 0.0837216854095459

372 2 3 0.08381810188293456

137 7 9 0.08401031494140625

126 3 5 0.0844261884689331

371 7 8 0.08454370498657227

39 4 5 0.08478989601135253

125 8 10 0.08509013652801514

51 4 5 0.08526337146759033

52 0 1 0.08536744117736816

37 4 5 0.08573963642120361

38 0 1 0.08584578037261963

68 0 1 0.08630762100219727

61 4 5 0.08668694496154786

114 3 5 0.08732149600982667

64 0 1 0.08754193782806396

69 4 5 0.08755114078521728

67 4 5 0.08772521018981934

62 0 1 0.08798658847808838

70 0 1 0.08821029663085937

63 4 5 0.0885573148727417

161 7 9 0.0892486810684204

113 8 10 0.09019718170166016

162 2 4 0.09087493419647216

180 2 3 0.09137001037597656

156 2 4 0.09240911006927491

155 7 9 0.09384138584136963

170 0 1 0.1043860912322998

169 4 5 0.10477044582366943

226 0 1 0.10669589042663574

50 0 1 0.10669846534729004

187 4 5 0.1072119951248169

196 0 1 0.10781466960906982

193 4 5 0.10801548957824707

223 4 5 0.10802953243255616

195 4 5 0.10812158584594726

189 4 5 0.10820698738098145

194 0 1 0.10838830471038818

225 4 5 0.10842468738555908

190 0 1 0.10878281593322754

232 0 1 0.10938639640808105

224 0 1 0.10952606201171874

301 4 5 0.10964124202728272

292 0 1 0.10977373123168946

291 4 5 0.10981969833374024

290 0 1 0.11009325981140136

315 4 5 0.11013209819793701

188 0 1 0.1101682186126709

316 0 1 0.11046292781829833

289 4 5 0.11048693656921386

295 4 5 0.11058487892150878

298 0 1 0.11075704097747803

171 4 5 0.11126904487609864

314 0 1 0.11130020618438721

304 0 1 0.11131951808929444

302 0 1 0.1114088773727417

296 0 1 0.11142911911010742

172 0 1 0.11174318790435792

297 4 5 0.11216721534729004

309 4 5 0.11261608600616455

283 4 5 0.11269946098327636

313 4 5 0.11271100044250489

308 0 1 0.11281445026397705

303 4 5 0.11282610893249512

285 4 5 0.11288511753082275

284 0 1 0.11316752433776855

286 0 1 0.11318686008453369

49 4 5 0.11342251300811768

229 4 5 0.12170925140380859

310 0 1 0.12356507778167725

231 4 5 0.12705082893371583

230 0 1 0.12813825607299806

102 4 8 0.13339834213256835

101 10 14 0.13372359275817872

307 4 5 0.14794905185699464

35 7 8 0.1595147132873535

36 2 3 0.16067783832550048

41 7 8 0.16243736743927

42 2 3 0.1646883249282837

65 7 8 0.1663078784942627

53 7 8 0.16659882068634033

66 2 3 0.16873109340667725

71 7 8 0.17937080860137938

54 2 3 0.17989671230316162

72 2 3 0.1816648483276367

192 2 3 0.1865762710571289

197 7 8 0.18731865882873536

198 2 3 0.1877197265625

234 2 3 0.18773794174194336

191 7 8 0.18824689388275145

299 7 8 0.1893965482711792

293 7 8 0.18956127166748046

288 2 3 0.18962810039520264

317 7 8 0.18973307609558104

300 2 3 0.1897725820541382

305 7 8 0.19024808406829835

318 2 3 0.19167561531066896

294 2 3 0.1926318883895874

312 2 3 0.19323241710662842

311 7 8 0.19380898475646974

174 2 3 0.19389538764953612

287 7 8 0.20143654346466064

306 2 3 0.20442721843719483

233 7 8 0.20490477085113526

228 2 3 0.20758588314056398

173 7 8 0.20938608646392823

227 7 8 0.23835127353668212

2 281 326 0.34937257766723634

4 281 326 0.3541752576828003

1 460 505 0.45181238651275635

3 460 505 0.45922658443450926

5 86696 86712 inf

6 82725 82734 inf

id numBacktracks numAssignments avgtime

PM1.txt

26 6 13 0.19849348068237305

16 12 26 0.20903688669204712

27 7 16 0.2196761965751648

21 7 15 0.22577625513076782

20 7 14 0.22663038969039917

81 2 7 0.23578935861587524

93 2 7 0.23684120178222656

80 1 5 0.24606508016586304

86 2 7 0.2509496212005615

92 1 5 0.2522231340408325

14 23 33 0.2616918683052063

55 6 11 0.2640421390533447

28 7 16 0.26661747694015503

22 7 15 0.26737427711486816

87 3 9 0.2686105966567993

79 6 10 0.2749117612838745

15 21 35 0.27544504404067993

94 2 7 0.2924097180366516

57 3 10 0.29635971784591675

73 6 11 0.3126981854438782

91 6 10 0.31474387645721436

266 0 4 0.31931692361831665

75 3 9 0.32293426990509033

74 2 7 0.323403000831604

326 0 4 0.32463252544403076

82 5 10 0.35041576623916626

76 3 9 0.366929292678833

158 1 7 0.37420958280563354

267 2 7 0.38058042526245117

279 2 7 0.38118982315063477

344 1 5 0.38410764932632446

88 5 11 0.3842219114303589

363 2 7 0.3866783380508423

381 2 7 0.3886420726776123

272 2 7 0.388746440410614

327 2 7 0.39229750633239746

325 6 10 0.3928315043449402

343 6 10 0.3933337926864624

345 2 7 0.3945976495742798

56 7 12 0.398078978061676

350 1 5 0.398126482963562

278 1 5 0.4004850387573242

356 2 7 0.40176963806152344

386 1 5 0.40184485912323

134 3 9 0.40443581342697144

362 1 5 0.41043156385421753

351 2 7 0.41125208139419556

380 1 5 0.41738295555114746

387 2 7 0.4179873466491699

145 6 12 0.41909003257751465

374 0 5 0.4217582941055298

58 8 15 0.4240949749946594

152 3 9 0.4257879853248596

368 2 7 0.4270282983779907

349 6 10 0.4320024847984314

273 3 9 0.4339748024940491

235 6 11 0.43405890464782715

357 3 9 0.43623703718185425

153 4 11 0.438187837600708

159 5 12 0.4480780363082886

379 6 10 0.4545367956161499

364 2 7 0.46033644676208496

388 2 7 0.4607500433921814

280 2 7 0.4609668254852295

385 6 10 0.4677738547325134

382 2 7 0.4694920778274536

241 6 11 0.4697147607803345

369 3 9 0.4705274701118469

319 6 11 0.47712987661361694

146 2 8 0.4813160300254822

139 7 14 0.4842700958251953

121 12 20 0.4854227304458618

157 11 17 0.49081718921661377

140 4 11 0.49565571546554565

265 6 10 0.49652743339538574

217 6 11 0.4979322552680969

135 5 13 0.498022198677063

19 31 38 0.49844056367874146

375 4 10 0.5043625235557556

331 6 11 0.5050964951515198

337 6 11 0.50602126121521

332 2 7 0.5173284411430359

160 5 12 0.5191411972045898

277 6 10 0.5199688673019409

338 2 7 0.5208325386047363

62 1 7 0.5223668813705444

361 6 10 0.5261116623878479

128 4 11 0.5288987755775452

147 5 13 0.5319592952728271

333 3 9 0.534695565700531

339 3 9 0.5370708107948303

141 6 14 0.5371326208114624

346 5 10 0.5393261909484863

85 18 23 0.5414789915084839

248 1 7 0.5417566895484924

274 4 10 0.542236864566803

51 4 13 0.5426351428031921

261 3 9 0.543450653553009

376 4 10 0.5475460290908813

268 3 8 0.5505909323692322

69 4 11 0.552630603313446

260 2 7 0.5542753338813782

321 3 9 0.5569678544998169

320 2 7 0.5586730241775513

243 3 10 0.5595096349716187

219 3 10 0.5608950257301331

259 6 11 0.5646772384643555

127 15 22 0.5675932168960571

328 5 10 0.5703637599945068

237 3 10 0.5718753337860107

352 5 10 0.5726750493049622

340 3 9 0.5744884610176086

63 5 12 0.5866622924804688

136 5 13 0.5875495076179504

68 4 10 0.5924786329269409

154 6 13 0.5988186001777649

255 4 11 0.6025309562683105

358 5 11 0.6041050553321838

334 3 9 0.6080650091171265

370 5 11 0.6099437475204468

373 11 16 0.610110878944397

148 5 13 0.6125922799110413

322 3 9 0.6128273010253906

133 18 24 0.613208532333374

129 7 15 0.6221913695335388

262 3 9 0.6259200572967529

25 36 43 0.6272140145301819

142 8 16 0.6364278793334961

64 5 12 0.6371994614601135

70 5 12 0.6378907561302185

151 18 24 0.6386855840682983

254 4 10 0.6399004459381104

13 80 90 0.6464928984642029

249 5 12 0.6673982739448547

213 4 13 0.6780735850334167

61 14 20 0.6785836815834045

242 7 12 0.6794506907463074

52 8 17 0.6835945844650269

123 10 20 0.6988239288330078

49 18 25 0.6989951729774475

355 18 23 0.7012195587158203

50 9 16 0.7037960886955261

247 14 20 0.7051170468330383

250 5 12 0.7161519527435303

256 5 12 0.7166561484336853

236 7 12 0.7171511650085449

271 18 23 0.7190335392951965

115 19 28 0.7258603572845459

296 1 7 0.7322153449058533

244 8 15 0.7419235706329346

130 8 16 0.7421584725379944

302 1 7 0.742497444152832

284 1 7 0.7462536096572876

314 1 7 0.7475975751876831

124 10 20 0.7597050070762634

309 4 11 0.7687565088272095

67 18 24 0.7740501761436462

220 6 13 0.7765500545501709

238 8 15 0.7803409695625305

291 4 11 0.7922170758247375

218 7 12 0.8032828569412231

297 4 11 0.8036280870437622

308 4 10 0.8038987517356873

303 4 11 0.8053011298179626

117 10 22 0.8057836294174194

290 4 10 0.8082714080810547

211 18 25 0.8120473027229309

118 7 19 0.8214816451072693

315 5 12 0.821804940700531

367 18 23 0.8245119452476501

253 18 24 0.8348122835159302

295 6 12 0.8400013446807861

122 14 22 0.8463819026947021

285 5 12 0.8666281700134277

301 6 12 0.8727147579193115

225 4 13 0.882488489151001

298 3 10 0.8866399526596069

316 5 12 0.8873109817504883

304 3 10 0.8984323143959045

292 5 12 0.902076005935669

310 5 12 0.9058945775032043

229 11 18 0.9101720452308655

286 5 12 0.918717086315155

313 11 17 0.9220307469367981

231 5 14 0.9245315194129944

46 16 29 0.9379139542579651

283 14 20 0.9783130884170532

214 8 17 0.9818127751350403

230 6 13 1.011367917060852

212 9 16 1.0136662721633911

224 9 16 1.0790163278579712

307 18 24 1.0793084502220154

232 7 16 1.0887298583984375

289 18 24 1.0929526686668396

223 18 25 1.1063405275344849

226 8 17 1.107025384902954

116 18 27 1.1827743649482727

10 86 106 1.188145101070404

9 94 114 1.2966695427894592

45 35 48 1.3007160425186157

40 29 43 1.4853304624557495

208 16 29 1.5262550711631775

202 16 29 1.6728257536888123

39 41 55 1.7989519238471985

184 18 31 2.02042418718338

207 35 48 2.181460976600647

112 50 67 2.2348034977912903

196 29 43 2.3480384945869446

201 35 48 2.3596559166908264

190 29 43 2.3702086806297302

178 29 43 2.379618227481842

33 71 92 2.5091273188591003

111 66 83 2.615152060985565

183 33 46 2.618777632713318

195 41 55 2.872954487800598

177 41 55 2.9799346327781677

189 41 55 3.013372540473938

106 57 75 3.107286036014557

105 62 80 3.1911566257476807

44 165 176 4.124533474445343

8 410 428 4.314885795116425

171 71 92 4.373812675476074

165 71 92 4.378286957740784

99 170 193 5.801118791103363

38 207 219 5.828182220458984

110 199 214 6.1756622195243835

206 165 176 6.23153829574585

200 165 176 6.572692036628723

182 165 176 7.675481021404266

194 180 192 7.829760432243347

104 227 243 7.977324843406677

188 207 219 8.920498311519623

34 319 340 9.23152208328247

176 207 219 9.383014857769012

43 489 500 10.903882801532745

7 1147 1165 12.190016210079193

109 540 555 14.563497841358185

172 319 340 15.601091146469116

37 631 643 16.06736534833908

199 489 500 16.951517283916473

205 489 500 17.01928836107254

166 319 340 17.42240971326828

32 726 743 18.333069920539856

100 627 650 20.339651584625244

193 499 511 20.827860414981842

103 696 712 21.503262996673584

181 487 498 22.266652941703796

187 631 643 24.79979294538498

175 631 643 25.59311282634735

170 726 743 31.134489119052887

164 726 743 32.66226810216904

98 1313 1333 36.29737162590027

31 1719 1736 41.44715225696564

83 2230 2240 52.20612233877182

95 2208 2218 53.653479278087616

23 4409 4422 53.91010510921478

29 4236 4248 57.23349690437317

1 33800 33835 inf

101 3371 3383 inf

102 2454 2470 inf

107 2175 2183 inf

108 2101 2108 inf

11 5503 5514 inf

113 2772 2777 inf

114 2747 2753 inf

119 1982 1989 inf

12 5451 5468 inf

120 1827 1837 inf

125 3290 3296 inf

126 3033 3041 inf

131 1597 1604 inf

132 1551 1558 inf

137 1575 1580 inf

138 1551 1556 inf

143 2098 2107 inf

144 1995 2003 inf

149 2558 2564 inf

150 2509 2515 inf

155 2277 2282 inf

156 2264 2268 inf

161 2534 2537 inf

162 2514 2517 inf

163 1461 1474 inf

167 1415 1431 inf

168 1209 1226 inf

169 1303 1306 inf

17 8137 8148 inf

173 1748 1759 inf

174 1507 1517 inf

179 1551 1557 inf

18 8178 8189 inf

180 1514 1521 inf

185 1208 1213 inf

186 1159 1167 inf

191 1662 1668 inf

192 1634 1640 inf

197 1530 1539 inf

198 1513 1520 inf

2 32227 32258 inf

203 1870 1875 inf

204 1784 1790 inf

209 1956 1961 inf

210 1900 1907 inf

215 1300 1305 inf

216 1240 1254 inf

221 1264 1272 inf

222 1244 1252 inf

227 1569 1576 inf

228 1505 1513 inf

233 1570 1577 inf

234 1574 1582 inf

239 1863 1879 inf

24 4890 4896 inf

240 1748 1757 inf

245 2089 2098 inf

246 2008 2018 inf

251 1141 1149 inf

252 1088 1092 inf

257 1131 1140 inf

258 1092 1095 inf

263 1160 1169 inf

264 1113 1121 inf

269 1160 1163 inf

270 1141 1147 inf

275 1177 1185 inf

276 1146 1152 inf

281 1119 1124 inf

282 1103 1110 inf

287 1292 1301 inf

288 1260 1269 inf

293 1297 1308 inf

294 1259 1264 inf

299 1365 1370 inf

3 33326 33359 inf

30 4429 4436 inf

300 1319 1329 inf

305 1449 1453 inf

306 1406 1412 inf

311 1420 1424 inf

312 1392 1397 inf

317 1439 1447 inf

318 1403 1408 inf

323 1528 1534 inf

324 1460 1470 inf

329 1416 1422 inf

330 1397 1405 inf

335 1707 1713 inf

336 1658 1664 inf

341 1755 1761 inf

342 1705 1711 inf

347 1859 1862 inf

348 1817 1820 inf

35 2530 2540 inf

353 1959 1963 inf

354 1942 1946 inf

359 1727 1735 inf

36 2382 2395 inf

360 1632 1637 inf

365 1556 1565 inf

366 1495 1502 inf

371 1840 1845 inf

372 1814 1819 inf

377 1822 1830 inf

378 1780 1784 inf

383 1872 1877 inf

384 1833 1837 inf

389 1954 1956 inf

390 1914 1916 inf

4 32289 32326 inf

41 2386 2397 inf

42 2374 2382 inf

47 2574 2580 inf

48 2596 2603 inf

5 44080 44123 inf

53 2396 2406 inf

54 2284 2291 inf

59 3145 3154 inf

6 42398 42442 inf

60 3061 3070 inf

65 1927 1934 inf

66 1887 1895 inf

71 1946 1952 inf

72 1936 1941 inf

77 2449 2454 inf

78 2454 2459 inf

84 2539 2549 inf

89 2463 2469 inf

90 2451 2461 inf

96 2484 2488 inf

97 2263 2277 inf

PM2.txt

14 11 43 0.3287263512611389

15 25 66 0.4427521228790283

9 12 43 0.48802924156188965

20 1 31 0.5270876288414001

8 3 40 0.5281691551208496

16 36 76 0.5387411117553711

26 1 33 0.5762069821357727

27 9 39 0.5798981785774231

21 9 39 0.5961967706680298

10 7 51 0.6517546772956848

56 0 27 0.691710352897644

28 8 42 0.709465503692627

22 9 43 0.7116514444351196

92 0 27 0.9269982576370239

80 0 27 0.9347629547119141

74 0 27 0.9351499676704407

45 7 37 1.0193099975585938

86 1 32 1.1204286217689514

93 7 37 1.1309276819229126

44 1 35 1.1332201957702637

57 18 55 1.1517248153686523

87 7 37 1.1519700288772583

81 7 37 1.154846727848053

75 7 37 1.19578355550766

122 0 30 1.200802206993103

62 1 28 1.2090654373168945

58 19 57 1.2227067351341248

94 5 37 1.2243678569793701

50 5 36 1.238450050354004

32 9 41 1.2635329961776733

146 0 27 1.2851253151893616

140 0 27 1.2881615161895752

46 4 44 1.2964563965797424

82 9 42 1.3058947324752808

39 7 37 1.321605622768402

128 1 28 1.3267454504966736

88 6 39 1.345482051372528

68 1 32 1.355605661869049

158 0 28 1.3713617324829102

76 9 42 1.4085615873336792

69 7 37 1.4388350248336792

38 2 37 1.4520582556724548

111 9 39 1.452640414237976

63 7 37 1.456375002861023

218 0 27 1.4699110984802246

242 0 27 1.5062561631202698

236 0 27 1.5075386762619019

159 7 37 1.5325083136558533

134 1 32 1.53726464509964

105 9 39 1.5416836142539978

34 25 65 1.5453253984451294

153 7 37 1.5593475699424744

152 1 32 1.5631805658340454

147 7 37 1.571987807750702

40 4 44 1.6042016744613647

116 7 39 1.6222028136253357

135 7 37 1.6381189823150635

129 7 37 1.642356276512146

141 7 37 1.6574550867080688

52 18 56 1.6576520800590515

64 9 42 1.6754570603370667

104 1 36 1.685916006565094

70 8 41 1.7041110396385193

110 1 36 1.7158746719360352

320 0 27 1.728830635547638

326 0 27 1.7322744727134705

160 5 38 1.7375854849815369

332 0 27 1.7386459708213806

278 0 27 1.7438871264457703

51 22 61 1.7594878673553467

380 0 27 1.762890338897705

260 0 27 1.7635275721549988

362 0 27 1.7689682245254517

266 0 27 1.7702921628952026

386 0 27 1.7793888449668884

350 0 27 1.7799551486968994

374 0 27 1.7802841067314148

344 0 27 1.7898517847061157

338 0 27 1.7942495346069336

248 1 28 1.7959697246551514

33 38 78 1.8038762211799622

100 25 67 1.8087849020957947

124 19 56 1.8108830451965332

148 9 43 1.8381167650222778

230 0 28 1.8517593741416931

154 8 41 1.8643216490745544

123 22 61 1.9036368131637573

207 7 37 1.9580425024032593

296 0 27 1.9876503348350525

136 8 41 2.001978874206543

201 7 37 2.01437246799469

302 0 27 2.0145702362060547

112 4 46 2.026917338371277

183 7 37 2.0347838401794434

130 9 43 2.0444796681404114

284 1 28 2.0506733655929565

106 4 46 2.0584623217582703

177 7 37 2.064969062805176

142 10 44 2.0714364051818848

272 1 32 2.0857890248298645

254 1 32 2.094669759273529

369 7 37 2.096996486186981

363 7 37 2.099376916885376

387 7 37 2.111438512802124

368 1 32 2.1123290061950684

381 7 37 2.1153522729873657

357 7 37 2.117968738079071

375 7 37 2.118575870990753

345 7 37 2.1256420016288757

356 1 32 2.127011716365814

351 7 37 2.133215308189392

314 0 28 2.1384833455085754

279 7 37 2.1638407111167908

339 7 37 2.1709460020065308

267 7 37 2.184779107570648

327 7 37 2.1880534291267395

212 5 36 2.188142478466034

273 7 37 2.214767575263977

182 1 35 2.2208011746406555

255 7 37 2.2374225854873657

261 7 37 2.240253508090973

249 7 37 2.2552651166915894

99 44 86 2.2560805082321167

321 7 37 2.258331537246704

333 7 37 2.2617151141166687

206 1 35 2.269815683364868

382 5 37 2.286095142364502

200 1 35 2.2916905283927917

290 1 32 2.294791042804718

195 7 37 2.295361876487732

164 9 41 2.2983744144439697

388 5 37 2.2999172806739807

118 21 60 2.3184202313423157

117 22 62 2.3190343379974365

189 7 37 2.333284556865692

308 1 32 2.3377931714057922

98 22 57 2.3466755151748657

364 5 37 2.3599973917007446

303 7 37 2.3664621710777283

176 2 37 2.3787376284599304

376 5 37 2.3815475702285767

170 9 41 2.3859500885009766

280 5 37 2.388634741306305

224 5 36 2.3995463848114014

309 7 37 2.402109384536743

315 7 37 2.4106513261795044

346 9 42 2.419754207134247

291 7 37 2.4272871017456055

243 18 55 2.441841185092926

352 9 42 2.4515005350112915

370 6 39 2.482684552669525

358 6 39 2.4918813705444336

328 9 42 2.494740307331085

297 7 37 2.499591112136841

285 7 37 2.5091689229011536

166 25 65 2.513277232646942

237 18 55 2.5140833258628845

340 9 42 2.549817740917206

316 5 37 2.574901282787323

322 9 42 2.5945058465003967

268 9 42 2.6025936007499695

334 9 42 2.6126989126205444

274 6 39 2.621484696865082

184 4 44 2.6269537210464478

208 4 44 2.6271573305130005

188 2 37 2.627178192138672

202 4 44 2.6312689185142517

262 9 42 2.634572744369507

194 2 37 2.6581671833992004

178 4 44 2.658852458000183

244 19 57 2.665893077850342

219 18 55 2.6943870186805725

256 8 41 2.7013449668884277

250 9 42 2.702704131603241

238 19 57 2.7193280458450317

304 9 42 2.7241819500923157

292 8 41 2.75805127620697

310 8 41 2.848556160926819

298 9 42 2.8605831265449524

286 9 42 2.885686457157135

190 4 44 2.93365478515625

196 4 44 2.9429232478141785

165 38 78 2.953585147857666

172 25 65 2.9604984521865845

220 19 57 2.9737393856048584

214 18 56 3.0749430060386658

232 18 56 3.102394700050354

231 22 61 3.1735971570014954

213 22 61 3.1833133697509766

226 18 56 3.2327216267585754

171 38 78 3.345095992088318

225 22 61 3.3961827754974365

1 29020 29080 inf

101 3222 3249 inf

102 2279 2309 inf

103 1272 1291 inf

107 2259 2277 inf

108 1744 1767 inf

109 1427 1451 inf

11 5654 5669 inf

113 3019 3036 inf

114 2290 2312 inf

115 1148 1174 inf

119 1880 1899 inf

12 5276 5303 inf

120 2130 2152 inf

121 1490 1511 inf

125 3013 3033 inf

126 2760 2782 inf

127 1159 1183 inf

13 7695 7719 inf

131 2175 2191 inf

132 1582 1605 inf

133 1177 1202 inf

137 1781 1799 inf

138 1445 1468 inf

139 1298 1321 inf

143 2474 2492 inf

144 2109 2131 inf

145 1411 1431 inf

149 2566 2582 inf

150 2145 2168 inf

151 1285 1307 inf

155 2440 2458 inf

156 2100 2122 inf

157 1374 1396 inf

161 2542 2561 inf

162 2137 2159 inf

163 768 796 inf

167 1501 1523 inf

168 1185 1214 inf

169 950 976 inf

17 8099 8121 inf

173 1745 1768 inf

174 1478 1508 inf

175 904 928 inf

179 1751 1772 inf

18 8337 8363 inf

180 1224 1247 inf

181 786 808 inf

185 1396 1413 inf

186 1122 1145 inf

187 1004 1021 inf

19 4203 4227 inf

191 1710 1731 inf

192 1224 1245 inf

193 902 923 inf

197 1644 1661 inf

198 1324 1344 inf

199 1017 1037 inf

2 28401 28478 inf

203 2367 2385 inf

204 1915 1937 inf

205 1055 1077 inf

209 2339 2356 inf

210 1842 1863 inf

211 756 785 inf

215 1387 1408 inf

216 1506 1528 inf

217 777 797 inf

221 1276 1294 inf

222 1247 1270 inf

223 912 936 inf

227 1573 1595 inf

228 1636 1660 inf

229 923 947 inf

23 5084 5101 inf

233 1596 1613 inf

234 1510 1534 inf

235 962 987 inf

239 2005 2023 inf

24 5110 5133 inf

240 2198 2220 inf

241 1093 1115 inf

245 2089 2109 inf

246 2041 2063 inf

247 851 872 inf

25 3930 3955 inf

251 1684 1703 inf

252 1215 1236 inf

253 835 856 inf

257 1379 1397 inf

258 1097 1118 inf

259 856 878 inf

263 1655 1673 inf

264 1212 1234 inf

265 740 761 inf

269 1144 1159 inf

270 1061 1084 inf

271 765 787 inf

275 1263 1282 inf

276 1092 1115 inf

277 720 744 inf

281 1143 1160 inf

282 1059 1081 inf

283 902 922 inf

287 1645 1659 inf

288 1252 1274 inf

289 912 935 inf

29 4389 4408 inf

293 1414 1433 inf

294 1122 1143 inf

295 925 949 inf

299 1686 1704 inf

3 29288 29341 inf

30 4206 4229 inf

300 1394 1416 inf

301 883 905 inf

305 1476 1492 inf

306 1254 1275 inf

307 881 900 inf

31 1771 1796 inf

311 1476 1495 inf

312 1269 1291 inf

313 864 886 inf

317 1448 1467 inf

318 1252 1275 inf

319 943 967 inf

323 1992 2010 inf

324 1740 1761 inf

325 816 838 inf

329 1381 1397 inf

330 1317 1339 inf

331 1023 1047 inf

335 1968 1986 inf

336 1697 1719 inf

337 953 972 inf

341 1689 1707 inf

342 1452 1474 inf

343 1064 1083 inf

347 1983 1996 inf

348 1864 1884 inf

349 1064 1087 inf

35 2628 2656 inf

353 1945 1962 inf

354 1818 1842 inf

355 950 971 inf

359 2007 2024 inf

36 2492 2517 inf

360 1746 1768 inf

361 935 953 inf

365 1786 1805 inf

366 1631 1652 inf

367 968 991 inf

37 1817 1840 inf

371 1983 1999 inf

372 1716 1738 inf

373 989 1008 inf

377 1933 1950 inf

378 1651 1671 inf

379 1021 1040 inf

383 2062 2081 inf

384 1820 1841 inf

385 1026 1047 inf

389 2034 2051 inf

390 1802 1823 inf

4 28226 28283 inf

41 2676 2693 inf

42 2458 2480 inf

43 1956 1979 inf

47 3241 3257 inf

48 2879 2902 inf

49 1743 1767 inf

5 35906 35953 inf

53 2494 2511 inf

54 2916 2939 inf

55 2195 2219 inf

59 3446 3462 inf

6 34512 34559 inf

60 3549 3572 inf

61 1699 1719 inf

65 2521 2538 inf

66 2313 2333 inf

67 1675 1694 inf

7 5287 5312 inf

71 2286 2303 inf

72 2044 2065 inf

73 1883 1906 inf

77 3139 3156 inf

78 3105 3130 inf

79 1913 1935 inf

83 2651 2669 inf

84 2741 2763 inf

85 1798 1818 inf

89 2768 2786 inf

90 2727 2750 inf

91 1820 1839 inf

95 2794 2812 inf

96 2757 2778 inf

97 1376 1404 inf

PM3.txt

25 11 28 0.4077579975128174

16 26 64 0.47135740518569946

28 0 33 0.5760911703109741

19 26 43 0.5847625136375427

22 3 36 0.5971459746360779

8 35 64 0.673578679561615

10 18 53 0.6996901631355286

7 48 70 0.734670102596283

91 8 24 0.7363189458847046

85 9 26 0.7830842733383179

27 27 53 0.8541342616081238

21 30 58 0.8728880286216736

79 17 34 0.8737913966178894

73 16 33 0.9443619847297668

15 94 125 0.9503190517425537

92 3 29 0.9922946691513062

157 10 26 0.9943140149116516

94 0 30 1.0538299083709717

151 11 28 1.0596592426300049

82 1 31 1.0612775683403015

74 9 36 1.0952629446983337

88 0 31 1.0962885022163391

86 9 35 1.114650011062622

80 9 35 1.1298227310180664

43 29 48 1.1338974833488464

13 146 169 1.1440314650535583

145 17 34 1.1465032696723938

58 15 50 1.1552686095237732

67 11 28 1.158553421497345

76 2 34 1.161228597164154

133 11 28 1.1999579668045044

61 17 34 1.2294761538505554

139 16 33 1.247370421886444

46 8 41 1.257802963256836

44 20 47 1.3062727451324463

158 3 29 1.306367814540863

70 0 31 1.3360312581062317

68 9 36 1.3512930274009705

55 58 78 1.3742191195487976

385 8 24 1.3800700306892395

81 17 40 1.3866730332374573

373 8 24 1.3996831178665161

379 8 24 1.419317364692688

277 8 24 1.428546965122223

152 9 35 1.4330413937568665

160 0 30 1.4425515532493591

361 8 24 1.443281352519989

136 0 31 1.45302152633667

127 19 36 1.460525631904602

64 3 36 1.4621675610542297

134 9 36 1.4636958837509155

154 0 31 1.4784045219421387

52 15 49 1.4861252307891846

93 16 41 1.4904512166976929

271 9 26 1.493100106716156

355 9 26 1.5118703246116638

140 10 38 1.5265222787857056

367 9 26 1.528808832168579

148 2 33 1.5512550473213196

325 17 34 1.5784715414047241

265 14 30 1.5833401083946228

75 23 49 1.5849817395210266

259 13 30 1.5964758396148682

146 10 38 1.6046063303947449

253 11 28 1.6081832647323608

142 2 34 1.608480989933014

343 17 34 1.6349543929100037

319 16 33 1.6510960459709167

349 17 34 1.6520447134971619

130 3 36 1.6609474420547485

62 21 49 1.6650320291519165

313 10 26 1.685733437538147

87 21 47 1.695959448814392

247 17 34 1.7173684239387512

57 36 61 1.7303943037986755

109 34 54 1.751729130744934

37 36 56 1.767516553401947

331 16 33 1.791536033153534

124 19 55 1.808769404888153

295 13 30 1.8215839266777039

112 8 42 1.8222438097000122

307 11 28 1.8278319835662842

38 35 62 1.8372012376785278

278 3 29 1.838940680027008

26 82 110 1.8421175479888916

33 27 62 1.8532984256744385

337 17 34 1.8590601086616516

301 15 32 1.8695271611213684

380 3 29 1.8790208101272583

289 11 28 1.8864338994026184

386 3 29 1.8972048163414001

40 16 50 1.8988745212554932

326 9 35 1.902538537979126

272 9 35 1.902669370174408

128 21 49 1.9242060780525208

374 3 29 1.9281843304634094

362 3 29 1.9399728178977966

280 0 30 1.951409637928009

254 9 36 1.9612764716148376

147 21 44 1.9632546305656433

110 36 65 1.9650818705558777

118 15 51 1.9686056971549988

268 1 31 1.9813153147697449

320 9 36 1.9826123118400574

121 68 89 2.0097987055778503

256 0 31 2.0120561122894287

283 17 34 2.0161428451538086

328 1 31 2.022152066230774

274 0 31 2.0287501215934753

69 23 49 2.0302212834358215

356 9 35 2.0436126589775085

314 3 29 2.0629454851150513

199 29 48 2.0632567405700684

382 0 30 2.0723645091056824

20 93 122 2.077393054962158

205 29 48 2.0810402631759644

364 0 30 2.0821297764778137

344 9 35 2.090908646583557

376 0 30 2.091931641101837

346 1 31 2.094597101211548

368 9 35 2.1031165719032288

352 1 31 2.1038119792938232

388 0 30 2.1318618059158325

266 9 35 2.1319268941879272

308 9 35 2.1321300268173218

350 9 35 2.147883713245392

159 21 47 2.15570330619812

63 26 53 2.158209264278412

322 2 34 2.171742558479309

262 2 34 2.1832666993141174

370 0 31 2.1867900490760803

104 35 63 2.194041132926941

260 9 36 2.19937527179718

316 0 30 2.2185914516448975

358 0 31 2.244751989841461

332 9 36 2.2577033042907715

141 23 49 2.2589253783226013

250 3 36 2.262118101119995

340 2 33 2.2723886370658875

310 0 31 2.2739973664283752

103 41 62 2.2750749588012695

290 9 36 2.2800642251968384

292 0 31 2.301050901412964

334 2 34 2.32743763923645

338 9 36 2.3294068574905396

304 2 33 2.3372855186462402

206 20 47 2.3384363055229187

153 23 49 2.378041923046112

244 15 50 2.3910160660743713

106 16 51 2.3937107920646667

298 2 34 2.402858555316925

184 6 39 2.405466139316559

248 21 49 2.425581216812134

238 15 50 2.4448490738868713

202 8 41 2.4461286664009094

181 29 48 2.4512662291526794

135 23 49 2.462825655937195

200 20 47 2.4700493216514587

235 58 78 2.4834961891174316

296 10 38 2.4979557394981384

208 8 41 2.503719210624695

286 3 36 2.5188027024269104

302 10 38 2.530946671962738

241 58 78 2.5475630164146423

182 20 47 2.5490205883979797

327 17 40 2.577656924724579

351 17 40 2.605646073818207

193 29 48 2.625753939151764

129 26 53 2.631983160972595

220 15 50 2.6556508541107178

232 15 49 2.662448763847351

196 6 39 2.6631410121917725

345 17 40 2.7033079266548157

214 15 49 2.721347987651825

267 17 40 2.7302902340888977

175 36 56 2.765316367149353

49 91 111 2.7722228169441223

387 16 41 2.7774462699890137

284 21 49 2.8156649470329285

279 16 41 2.81623375415802

226 15 49 2.820603847503662

51 56 84 2.822942614555359

176 35 62 2.8399787545204163

381 16 41 2.8644473552703857

187 36 56 2.959208846092224

363 16 41 3.0000393390655518

194 36 64 3.0114792585372925

321 23 49 3.018299639225006

339 21 44 3.029270112514496

375 21 47 3.042272627353668

188 35 62 3.0486326813697815

123 58 85 3.0609225630760193

303 21 44 3.120111882686615

369 21 47 3.1445165276527405

333 23 49 3.145430088043213

261 21 47 3.162784516811371

178 16 50 3.1753188371658325

315 21 47 3.251827895641327

243 36 61 3.256060481071472

255 23 49 3.2968997955322266

309 23 49 3.3111774921417236

9 250 284 3.3184884786605835

357 21 47 3.344352960586548

291 23 49 3.3448983430862427

115 96 117 3.3650572896003723

273 21 47 3.371318221092224

297 21 47 3.375095307826996

99 64 103 3.4538683891296387

190 16 50 3.4638773798942566

171 27 62 3.5496278405189514

217 58 78 3.595128059387207

249 26 53 3.6052215695381165

285 26 53 3.6140105724334717

237 36 61 3.618466854095459

229 63 83 3.667774736881256

165 27 62 3.764650821685791

219 36 61 3.980319619178772

14 571 604 3.9848872423171997

231 45 71 4.193715453147888

39 94 123 4.471593856811523

211 91 111 4.568397700786591

117 76 105 4.600034415721893

223 91 111 4.637301921844482

56 226 257 4.805621802806854

225 56 84 5.000507891178131

213 56 84 5.598788499832153

45 140 169 5.783141136169434

105 98 128 6.556898832321167

122 240 271 6.819169044494629

189 94 123 7.5158127546310425

50 348 379 8.388678133487701

177 94 123 8.486243188381195

236 226 257 9.105929911136627

111 220 250 9.150863587856293

242 226 257 9.227970898151398

207 140 169 9.843740403652191

116 348 379 11.099899172782898

31 433 455 11.364806115627289

201 140 169 11.385796904563904

230 234 265 11.573366463184357

183 140 169 12.097943902015686

195 188 216 12.225867331027985

218 218 249 12.516457796096802

34 390 428 12.831076383590698

32 610 645 14.779995381832123

224 348 379 15.092376232147217

212 348 379 15.107383966445923

96 795 820 18.388982832431793

169 433 455 18.446178019046783

84 769 794 18.74897450208664

163 433 455 19.72811096906662

98 858 895 21.483088314533234

97 730 757 21.683047652244568

90 903 928 22.206654369831085

150 842 869 23.25945907831192

162 875 901 23.643952071666718

172 390 428 23.973768830299377

170 610 645 25.39987051486969

78 1265 1288 26.514765739440918

164 610 645 26.627421438694

166 390 428 27.354215383529663

156 944 971 27.44538027048111

100 626 666 27.948827922344208

384 795 820 28.510588109493256

390 795 820 28.610901057720184

348 769 794 28.746980249881744

354 769 794 29.143617868423462

366 771 796 30.651217818260193

378 786 811 30.923015475273132

72 1128 1153 33.43385845422745

360 903 928 34.389687061309814

372 903 928 34.528324604034424

342 803 827 34.58700114488602

330 763 788 35.7015625834465

66 1274 1299 36.14014029502869

144 1337 1362 36.202981770038605

318 834 859 38.76184141635895

306 826 852 39.415522038936615

312 891 916 40.76488983631134

24 3365 3392 41.984000861644745

324 1265 1288 44.621193170547485

270 769 794 44.815573275089264

282 785 810 45.897936284542084

138 1194 1221 46.33544850349426

132 1319 1344 47.226554453372955

336 1265 1288 48.104975938797

276 872 897 48.383000791072845

30 3343 3370 50.090834856033325

264 1216 1239 53.33340138196945

300 1220 1245 53.64242523908615

294 1128 1153 57.165502190589905

1 21031 21087 inf

101 2573 2601 inf

102 1771 1806 inf

107 1865 1887 inf

108 1530 1553 inf

11 5559 5583 inf

113 2582 2600 inf

114 1961 1985 inf

119 1836 1854 inf

12 5362 5393 inf

120 1515 1542 inf

125 3092 3111 inf

126 2481 2503 inf

131 1732 1750 inf

137 1599 1621 inf

143 2203 2221 inf

149 2587 2604 inf

155 2320 2339 inf

161 2585 2601 inf

167 1094 1120 inf

168 1095 1131 inf

17 8663 8686 inf

173 1692 1717 inf

174 1277 1310 inf

179 1321 1339 inf

18 8077 8111 inf

180 1136 1165 inf

185 1179 1205 inf

186 925 957 inf

191 1512 1534 inf

192 1232 1258 inf

197 1507 1526 inf

198 1143 1177 inf

2 20504 20558 inf

203 1738 1759 inf

204 1350 1375 inf

209 1850 1873 inf

210 1398 1424 inf

215 1300 1322 inf

216 1084 1115 inf

221 1276 1293 inf

222 1115 1146 inf

227 1737 1757 inf

228 1246 1275 inf

23 5164 5182 inf

233 1647 1666 inf

234 1415 1443 inf

239 2039 2061 inf

240 1782 1808 inf

245 2224 2248 inf

246 1845 1876 inf

251 1306 1323 inf

252 1234 1253 inf

257 1184 1206 inf

258 1096 1115 inf

263 1277 1302 inf

269 1182 1203 inf

275 1321 1339 inf

281 1178 1195 inf

287 1414 1434 inf

288 1240 1259 inf

29 4179 4197 inf

293 1319 1336 inf

299 1383 1401 inf

3 20911 20969 inf

305 1442 1462 inf

311 1467 1490 inf

317 1475 1495 inf

323 1581 1604 inf

329 1449 1466 inf

335 1611 1631 inf

341 1605 1620 inf

347 1845 1862 inf

35 2492 2515 inf

353 1820 1837 inf

359 1788 1807 inf

36 2196 2231 inf

365 1551 1569 inf

371 1815 1832 inf

377 1807 1824 inf

383 1821 1837 inf

389 1898 1917 inf

4 20512 20566 inf

41 2238 2257 inf

42 2129 2155 inf

47 2614 2639 inf

48 2334 2357 inf

5 16031 16087 inf

53 2572 2589 inf

54 2324 2349 inf

59 3372 3394 inf

6 15794 15849 inf

60 3560 3592 inf

65 2142 2159 inf

71 2030 2045 inf

77 2755 2773 inf

83 2701 2719 inf

89 2661 2676 inf

95 2655 2672 inf

PM4.txt

15 2 47 0.36011940240859985

25 2 35 0.5979604125022888

7 13 51 0.616401731967926

19 3 36 0.6206061244010925

9 1 45 0.6213763952255249

16 40 92 0.7243829965591431

21 1 42 0.7445570826530457

27 2 43 0.7584007382392883

10 16 60 0.7639440298080444

22 6 50 0.8610902428627014

28 4 48 0.8676669597625732

91 2 34 1.0597967505455017

85 2 34 1.061371386051178

79 1 33 1.0627813935279846

57 1 42 1.100041925907135

73 2 34 1.114315390586853

43 7 43 1.1758162379264832

93 1 41 1.3609906435012817

81 1 41 1.3708850741386414

33 1 46 1.3915618062019348

51 1 42 1.3964824080467224

67 2 35 1.4093483090400696

75 1 41 1.4241830706596375

87 1 41 1.4314631819725037

61 2 34 1.476064682006836

45 1 45 1.496826171875

157 3 36 1.5191857814788818

151 2 35 1.5215807557106018

145 3 36 1.5409889221191406

82 6 49 1.5691376328468323

133 2 35 1.5806403756141663

94 4 48 1.5960352420806885

88 4 48 1.6048604846000671

127 3 36 1.6061390042304993

139 3 36 1.62655907869339

76 6 50 1.6332072019577026

109 10 46 1.633322536945343

123 1 43 1.6664140820503235

69 1 41 1.7003756761550903

63 1 41 1.7053444385528564

37 11 48 1.7145553231239319

46 16 60 1.715510904788971

117 2 44 1.7239637970924377

39 1 45 1.8299917578697205

58 20 70 1.8401695489883423

99 4 52 1.8915830850601196

70 4 48 1.926910400390625

64 4 48 1.9321255683898926

103 12 49 1.9701639413833618

159 1 42 1.9991514682769775

141 2 43 2.0424030423164368

129 1 42 2.044794738292694

40 18 59 2.0510209798812866

343 1 33 2.052119791507721

105 1 45 2.059259831905365

373 2 34 2.0620744824409485

247 2 34 2.0700318813323975

147 2 43 2.0715773701667786

361 2 34 2.0738219022750854

111 1 45 2.084230065345764

135 2 43 2.0912309288978577

379 2 34 2.1015514731407166

349 1 33 2.103720784187317

265 1 33 2.1054638028144836

355 2 34 2.112976908683777

385 2 34 2.1178793907165527

367 2 34 2.13582706451416

153 2 43 2.138519823551178

325 1 33 2.139793574810028

337 2 34 2.149200677871704

271 2 34 2.153739333152771

259 2 34 2.1546838879585266

277 2 34 2.1647006273269653

160 4 48 2.2108463048934937

319 2 34 2.214112162590027

331 2 34 2.219521164894104

136 4 48 2.24179345369339

52 18 68 2.241931438446045

142 6 50 2.2436776161193848

253 2 35 2.2522809505462646

154 4 48 2.2675562500953674

130 4 48 2.2756290435791016

148 6 50 2.290238857269287

106 18 60 2.302467167377472

205 7 43 2.3065577149391174

237 1 42 2.317036807537079

243 1 42 2.328122615814209

112 16 60 2.344706892967224

181 7 43 2.348623812198639

199 7 43 2.3559776544570923

301 2 34 2.3701387643814087

34 34 83 2.372950255870819

295 2 34 2.406555712223053

307 2 35 2.431063652038574

313 3 36 2.4804279804229736

283 2 34 2.4874250292778015

165 1 46 2.503035008907318

219 1 42 2.5448631644248962

175 11 48 2.580004870891571

289 2 35 2.5993822813034058

193 9 45 2.6674054861068726

249 1 41 2.706690192222595

225 1 42 2.716217279434204

231 1 42 2.7192386388778687

381 1 41 2.749336540699005

351 1 41 2.757097065448761

333 1 41 2.7756492495536804

339 1 41 2.794547140598297

255 1 41 2.801413118839264

261 1 41 2.81026953458786

321 1 41 2.814148426055908

345 1 41 2.8176560401916504

279 1 41 2.819886028766632

387 1 41 2.8315699100494385

267 1 41 2.83582866191864

171 1 46 2.836655914783478

327 1 41 2.843092143535614

375 1 41 2.8478033542633057

369 1 41 2.8513394594192505

273 1 41 2.8810115456581116

363 1 41 2.894431471824646

187 11 48 2.9071338772773743

357 1 41 2.9321404695510864

177 1 45 2.933509647846222

183 1 45 2.961696982383728

213 1 42 2.974926233291626

207 1 45 3.028358519077301

178 18 59 3.0319421887397766

124 30 81 3.043691396713257

118 21 72 3.0792514085769653

352 6 49 3.0871251225471497

328 6 49 3.0926856994628906

201 1 45 3.098063349723816

382 4 48 3.1105560064315796

315 1 41 3.130326747894287

250 4 48 3.1435441970825195

303 1 41 3.1462310552597046

334 6 50 3.152880370616913

297 1 41 3.164703607559204

340 6 50 3.1698853373527527

358 4 48 3.1751506328582764

370 4 48 3.187177062034607

285 1 41 3.196842908859253

256 4 48 3.2023687958717346

346 6 49 3.2032758593559265

309 1 41 3.2084632515907288

262 4 48 3.2091545462608337

388 4 48 3.210893452167511

322 6 50 3.2138401865959167

268 4 47 3.2272093296051025

280 4 48 3.2296079993247986

376 4 48 3.2319830656051636

291 1 41 3.2412039637565613

274 4 48 3.2622633576393127

364 4 48 3.265451669692993

189 1 45 3.296160399913788

208 16 60 3.3646914958953857

184 18 61 3.373941481113434

100 45 98 3.385306417942047

190 18 59 3.45757520198822

310 4 48 3.5546799302101135

202 16 60 3.567999243736267

316 4 48 3.5766493678092957

298 4 48 3.5932114124298096

304 4 48 3.6259454488754272

292 4 48 3.635618269443512

286 4 48 3.6533860564231873

195 1 45 3.783582329750061

244 20 70 3.7842738032341003

238 20 70 3.96555233001709

196 18 61 4.011230230331421

220 16 66 4.059821605682373

166 34 83 4.114848852157593

232 16 66 4.148055255413055

226 18 68 4.388087213039398

172 34 83 4.470638990402222

214 18 68 4.830995976924896

55 1310 1344 26.492346107959747

13 4164 4200 31.617116570472717

121 1669 1703 43.23186868429184

241 1310 1344 48.86341941356659

49 1573 1607 49.7642343044281

235 1310 1344 54.36603170633316

1 29999 30057 inf

101 2569 2605 inf

102 1848 1894 inf

104 1498 1532 inf

107 2408 2431 inf

108 1604 1636 inf

11 5257 5284 inf

110 1954 1982 inf

113 3005 3021 inf

114 2537 2571 inf

115 1283 1316 inf

116 1196 1225 inf

119 2419 2440 inf

12 5125 5159 inf

120 1582 1619 inf

122 2118 2148 inf

125 3826 3846 inf

126 2689 2726 inf

128 1338 1366 inf

131 1795 1817 inf

132 1651 1681 inf

134 1407 1436 inf

137 1786 1806 inf

138 1800 1833 inf

14 7473 7504 inf

140 1748 1778 inf

143 2154 2178 inf

144 1862 1893 inf

146 2064 2091 inf

149 2713 2739 inf

150 2349 2381 inf

152 1600 1627 inf

155 2345 2366 inf

156 2495 2523 inf

158 1979 2007 inf

161 2631 2656 inf

162 2386 2414 inf

163 1070 1107 inf

164 1061 1095 inf

167 1315 1350 inf

168 1164 1211 inf

169 1131 1168 inf

17 7714 7739 inf

170 1019 1053 inf

173 1592 1629 inf

174 1260 1305 inf

176 1082 1115 inf

179 1713 1736 inf

18 7800 7836 inf

180 1116 1149 inf

182 962 996 inf

185 1453 1476 inf

186 1041 1070 inf

188 1146 1181 inf

191 1617 1643 inf

192 1171 1203 inf

194 1077 1111 inf

197 1467 1490 inf

198 1217 1249 inf

2 29214 29273 inf

20 4207 4236 inf

200 1166 1196 inf

203 2104 2125 inf

204 1751 1779 inf

206 1327 1356 inf

209 2126 2149 inf

210 1800 1828 inf

211 836 867 inf

212 839 868 inf

215 1656 1676 inf

216 1045 1082 inf

217 869 901 inf

218 804 833 inf

221 1774 1794 inf

222 1077 1112 inf

223 969 999 inf

224 964 994 inf

227 1746 1767 inf

228 1146 1184 inf

229 1086 1117 inf

23 4675 4696 inf

230 976 1007 inf

233 1829 1850 inf

234 1329 1365 inf

236 1356 1385 inf

239 2776 2796 inf

24 4632 4661 inf

240 2080 2116 inf

242 1496 1527 inf

245 2771 2791 inf

246 2080 2116 inf

248 990 1017 inf

251 1221 1247 inf

252 1116 1145 inf

254 984 1012 inf

257 1268 1295 inf

258 1209 1242 inf

26 3761 3790 inf

260 980 1008 inf

263 1271 1292 inf

264 1096 1127 inf

266 897 925 inf

269 1206 1235 inf

270 995 1024 inf

272 924 953 inf

275 1314 1334 inf

276 1204 1231 inf

278 894 922 inf

281 1264 1287 inf

282 985 1015 inf

284 981 1009 inf

287 1284 1307 inf

288 1070 1102 inf

29 4153 4173 inf

290 988 1016 inf

293 1314 1340 inf

294 1169 1201 inf

296 1055 1085 inf

299 1348 1368 inf

3 30178 30236 inf

30 4825 4855 inf

300 1165 1196 inf

302 1046 1072 inf

305 1490 1511 inf

306 1287 1319 inf

308 1020 1049 inf

31 2104 2140 inf

311 1490 1512 inf

312 1332 1364 inf

314 1086 1113 inf

317 1460 1480 inf

318 1238 1269 inf

32 2081 2115 inf

320 1237 1264 inf

323 1580 1601 inf

324 1365 1396 inf

326 1113 1143 inf

329 1458 1482 inf

330 1366 1395 inf

332 1256 1285 inf

335 1592 1616 inf

336 1289 1319 inf

338 1334 1359 inf

341 1753 1776 inf

342 1552 1580 inf

344 1418 1446 inf

347 1995 2019 inf

348 1926 1956 inf

35 2278 2317 inf

350 1408 1438 inf

353 2074 2095 inf

354 1869 1899 inf

356 1139 1168 inf

359 1892 1916 inf

36 2153 2197 inf

360 1930 1961 inf

362 1123 1150 inf

365 1825 1847 inf

366 1707 1736 inf

368 1223 1249 inf

371 1943 1967 inf

372 1948 1981 inf

374 1258 1287 inf

377 1954 1981 inf

378 1770 1800 inf

38 1822 1850 inf

380 1449 1476 inf

383 2148 2175 inf

384 1898 1926 inf

386 1413 1442 inf

389 2048 2074 inf

390 1805 1832 inf

4 29229 29287 inf

41 2491 2514 inf

42 2151 2181 inf

44 2167 2197 inf

47 3165 3188 inf

48 2961 2990 inf

5 28002 28061 inf

50 1930 1961 inf

53 2601 2621 inf

54 2230 2265 inf

56 2743 2772 inf

59 4305 4325 inf

6 27143 27202 inf

60 4044 4080 inf

62 1727 1757 inf

65 2337 2361 inf

66 2248 2277 inf

68 1833 1860 inf

71 2277 2301 inf

72 2316 2348 inf

74 2406 2436 inf

77 2875 2901 inf

78 2677 2706 inf

8 4947 4980 inf

80 2436 2466 inf

83 3040 3061 inf

84 3248 3276 inf

86 2145 2175 inf

89 2836 2863 inf

90 3400 3430 inf

92 2496 2526 inf

95 3185 3207 inf

96 3187 3219 inf

97 1885 1925 inf

98 1539 1572 inf

PM5.txt

19 56 63 0.8156580924987793

20 56 63 0.8894836902618408

79 25 30 0.89835524559021

80 20 25 0.9511937499046326

73 37 42 0.9738292694091797

91 37 42 1.0696787238121033

74 35 40 1.0715543627738953

139 38 44 1.10975581407547

92 31 36 1.1237760186195374

145 37 43 1.167914092540741

85 39 44 1.1766948103904724

337 25 30 1.202555775642395

140 36 42 1.225882887840271

157 37 43 1.229196846485138

86 35 40 1.2621467113494873

158 33 39 1.2635376453399658

146 35 41 1.2990363240242004

259 35 40 1.3097181916236877

127 41 47 1.31263667345047

151 40 46 1.3391185998916626

319 37 42 1.3464542627334595

338 23 28 1.3469987511634827

325 25 30 1.3511801958084106

343 25 30 1.359553337097168

349 25 30 1.3728135824203491

350 20 25 1.3924837112426758

331 37 42 1.394843578338623

21 87 94 1.4008965492248535

326 20 25 1.4315569996833801

265 23 28 1.4356685280799866

22 85 92 1.4471813440322876

320 35 40 1.489710807800293

133 42 49 1.4904993176460266

266 18 23 1.4948568940162659

344 20 25 1.5116639733314514

152 38 44 1.5195571780204773

332 35 40 1.5204681158065796

27 90 97 1.5505492091178894

128 41 47 1.557392656803131

260 33 38 1.5875187516212463

379 37 42 1.6145628094673157

277 29 34 1.6373350620269775

361 37 41 1.6403416991233826

28 89 96 1.6501232385635376

278 23 28 1.6506913304328918

271 34 39 1.6757200360298157

362 31 35 1.694989800453186

355 39 44 1.6976677179336548

380 31 36 1.7108381986618042

134 41 48 1.7216519713401794

373 37 42 1.79345703125

385 37 42 1.7993577718734741

374 32 37 1.8135009407997131

356 35 40 1.816726565361023

386 31 36 1.830242395401001

272 30 35 1.8952409029006958

43 78 85 1.9112222790718079

247 40 45 1.9691949486732483

253 48 54 2.0030307173728943

81 57 61 2.02871036529541

82 52 56 2.060755431652069

367 39 44 2.0688655376434326

93 57 61 2.0954015851020813

368 35 40 2.158280849456787

248 38 43 2.1731502413749695

94 53 57 2.17519211769104

61 40 45 2.211706578731537

254 47 53 2.2670981884002686

62 38 43 2.3589513897895813

87 72 77 2.398350715637207

67 48 54 2.400843381881714

75 75 79 2.4075382947921753

88 67 72 2.4565171599388123

76 72 76 2.4710038900375366

44 94 101 2.47814804315567

295 37 42 2.480740010738373

313 30 36 2.509207010269165

301 33 38 2.5772456526756287

68 47 53 2.602077066898346

199 78 85 2.627560019493103

314 25 31 2.6535061597824097

205 78 85 2.680089235305786

296 35 40 2.7225428223609924

283 40 45 2.7442938089370728

302 31 36 2.782430946826935

109 101 111 2.7942758202552795

159 75 81 2.8362408876419067

25 178 185 2.8696576952934265

147 83 88 2.873995065689087

307 34 39 2.901792049407959

160 71 77 2.9177281856536865

289 48 54 2.923846423625946

308 32 37 2.925473928451538

26 180 187 2.9623153805732727

148 80 85 3.01515531539917

15 375 391 3.017379879951477

9 242 256 3.0288310050964355

284 38 43 3.0367583632469177

181 72 79 3.066437065601349

290 47 53 3.134423017501831

153 84 90 3.1680771112442017

351 57 61 3.2436970472335815

154 79 85 3.270918309688568

345 57 61 3.3306944370269775

327 57 61 3.3405014872550964

328 52 56 3.3873255252838135

141 88 93 3.398356020450592

346 52 56 3.4191458225250244

10 270 284 3.427651524543762

387 57 61 3.4333006739616394

352 52 56 3.4453466534614563

142 85 90 3.463994562625885

279 53 57 3.468784987926483

95 104 109 3.4785730242729187

388 53 57 3.490963339805603

129 77 82 3.5064873099327087

280 47 51 3.5223403573036194

110 117 127 3.5291407108306885

340 66 70 3.5600494146347046

339 69 73 3.577133595943451

333 75 79 3.600421667098999

45 102 110 3.6286370158195496

103 118 128 3.6466320753097534

200 94 101 3.657386302947998

130 75 80 3.6811134815216064

381 57 61 3.6836047172546387

63 73 78 3.7030041813850403

334 72 76 3.7099283933639526

206 94 101 3.7108675241470337

69 72 77 3.787762999534607

357 72 77 3.796240210533142

64 69 74 3.8165894150733948

70 67 72 3.8417569398880005

267 59 63 3.849936604499817

37 100 107 3.854952335357666

382 53 57 3.906740427017212

135 78 84 3.911692202091217

268 54 58 4.007158875465393

136 73 79 4.011279225349426

321 75 79 4.0271307826042175

175 100 107 4.046069860458374

363 57 61 4.068955779075623

375 63 68 4.081486165523529

376 59 64 4.11913275718689

274 61 65 4.146416902542114

322 72 76 4.150000035762787

46 117 125 4.24599677324295

193 82 89 4.273308634757996

369 72 77 4.303250789642334

96 126 131 4.32513952255249

182 88 95 4.372815907001495

358 67 72 4.397873342037201

364 53 57 4.425971746444702

273 68 72 4.488773703575134

13 592 607 4.492458462715149

370 67 72 4.510246813297272

315 66 71 4.584839344024658

261 73 77 4.604277074337006

249 73 78 4.677592754364014

29 308 315 4.679703176021576

316 61 66 4.681165814399719

104 134 144 4.684560000896454

255 72 77 4.686127543449402

38 117 124 4.738271415233612

262 70 74 4.74511331319809

256 67 72 4.751107752323151

16 601 617 4.790803790092468

291 72 77 4.9432053565979

187 100 107 4.951882600784302

389 104 109 4.994185388088226

250 69 74 5.008153796195984

292 67 72 5.07475870847702

303 77 81 5.183726727962494

297 79 83 5.2357823848724365

285 73 78 5.272042453289032

176 117 124 5.2802122831344604

207 102 110 5.365541219711304

310 67 71 5.4813602566719055

286 69 74 5.488863408565521

194 99 106 5.498498618602753

309 72 76 5.52729457616806

161 199 205 5.534475207328796

298 76 80 5.551630854606628

383 104 109 5.578193664550781

304 74 78 5.656183660030365

201 102 110 5.717190504074097

39 136 145 5.791475594043732

57 224 235 5.791667819023132

89 182 187 5.8217979073524475

111 157 168 5.9201420545578

390 126 131 6.036868214607239

30 388 395 6.078555405139923

83 202 206 6.099820077419281

188 117 124 6.177715718746185

55 225 237 6.183776080608368

365 104 108 6.309375643730164

208 117 125 6.315522909164429

183 104 112 6.351137638092041

14 838 853 6.4413095116615295

40 151 160 6.542811214923859

112 171 182 6.589913070201874

23 520 526 6.716586053371429

202 117 125 6.747684478759766

162 254 260 6.9747185707092285

377 152 157 7.146877110004425

90 212 217 7.223195314407349

384 126 131 7.241305649280548

105 168 180 7.621191382408142

8 668 682 7.652239382266998

184 119 127 7.6762107610702515

7 642 656 7.894117116928101

189 136 145 7.974803626537323

177 136 145 7.9794602394104

155 243 249 7.981782615184784

77 258 263 8.096897900104523

366 126 130 8.158458948135376

195 126 134 8.215373516082764

84 269 273 8.41518771648407

347 202 206 8.485991418361664

106 183 195 8.61346685886383

58 318 329 8.621811926364899

123 278 292 8.679719984531403

24 703 709 8.726899206638336

149 306 312 8.751142084598541

56 321 333 8.917225122451782

371 182 187 9.12278026342392

329 185 189 9.173431396484375

378 190 195 9.191145777702332

190 151 160 9.32078868150711

353 202 206 9.332286417484283

178 151 160 9.503732562065125

156 287 293 9.505602419376373

196 141 149 9.697775483131409

241 225 237 9.698604226112366

121 336 349 9.732484102249146

243 224 235 9.834481179714203

359 182 187 10.028427243232727

341 250 255 10.11336499452591

78 331 336 10.131369233131409

51 283 296 10.206279456615448

335 258 263 10.35438734292984

237 224 235 10.647906124591827

372 212 217 10.76951915025711

281 165 169 10.775586366653442

143 325 331 10.843651533126831

235 225 237 11.211283564567566

49 300 312 11.213886082172394

150 418 424 11.473825216293335

354 269 273 11.641436457633972

323 258 263 12.163728654384613

269 192 195 12.330262899398804

360 212 217 12.46501350402832

317 259 264 12.539934992790222

342 308 313 12.548916399478912

71 348 353 12.844191193580627

217 219 231 12.867337703704834

124 417 431 13.072359561920166

330 240 244 13.30799114704132

348 269 273 13.39706426858902

336 331 336 13.556759119033813

65 387 391 13.832355618476868

117 318 333 13.88832575082779

299 291 295 14.122751593589783

242 321 333 14.171713292598724

219 246 257 14.220547556877136

282 217 221 14.267098069190979

311 298 303 14.32494455575943

52 403 416 14.404352009296417

244 318 329 14.449479341506958

231 271 283 14.468546330928802

229 281 293 14.537595331668854

263 247 251 14.987820506095886

144 457 463 15.052022933959961

122 511 524 15.166747212409973

305 283 287 15.258720457553864

275 270 274 15.369856774806976

115 369 382 15.40198528766632

223 300 312 15.446640968322754

324 331 336 15.532257676124573

270 249 252 15.707373976707458

50 425 437 15.730878353118896

293 348 353 15.839311182498932

225 283 296 15.9249986410141

238 318 329 16.096370458602905

236 321 333 16.187152862548828

137 400 406 16.553961217403412

318 360 365 17.06168496608734

213 283 296 17.163775622844696

131 408 414 17.25101387500763

211 300 312 17.812506318092346

72 464 469 18.174094915390015

287 387 391 18.21186727285385

66 510 514 18.27370649576187

218 306 318 18.30063110589981

264 313 317 18.390392124652863

312 395 400 19.2430260181427

300 404 408 19.254304111003876

220 344 355 20.38915979862213

276 363 367 20.50533026456833

118 461 476 20.517247676849365

257 348 353 20.538548350334167

306 385 389 20.637939929962158

230 401 413 20.674716770648956

232 382 394 20.738881409168243

294 464 469 21.49726492166519

116 532 545 22.16561371088028

224 425 437 22.176295578479767

226 403 416 22.781740725040436

138 539 545 22.840968132019043

132 555 561 22.89348006248474

288 510 514 23.05644202232361

251 387 391 23.234776556491852

214 403 416 24.849976539611816

33 846 865 25.515926480293274

212 425 437 25.893720746040344

258 464 469 26.860550045967102

31 866 880 27.086342751979828

59 1216 1221 28.130371689796448

252 510 514 28.515234768390656

60 1279 1284 30.216554403305054

34 1073 1092 33.51805830001831

32 1148 1162 35.525720059871674

245 1216 1221 37.22346144914627

169 866 880 41.73254919052124

246 1279 1284 42.149790942668915

171 846 865 42.713601887226105

239 1216 1221 43.85108721256256

163 866 880 44.26932632923126

18 6100 6110 44.91908550262451

17 5944 5954 44.93642371892929

125 2411 2418 45.40551447868347

240 1279 1284 46.736541628837585

126 2513 2520 47.73020416498184

165 846 865 48.901165664196014

47 1643 1652 51.6433669924736

53 1799 1804 52.139865815639496

48 1697 1706 53.046757221221924

41 1584 1593 53.3188499212265

170 1148 1162 54.68211758136749

97 1748 1766 54.98975622653961

172 1073 1092 55.02378165721893

54 1874 1879 55.36477321386337

99 1516 1535 55.573421239852905

221 1143 1148 56.45177239179611

233 1531 1536 58.68635964393616

222 1199 1204 59.60041004419327

1 13868 13874 inf

100 1686 1696 inf

101 2227 2237 inf

102 2247 2255 inf

107 1597 1604 inf

108 1560 1568 inf

11 5566 5574 inf

113 2347 2353 inf

114 2243 2251 inf

119 1853 1859 inf

12 5476 5483 inf

120 1856 1862 inf

164 1086 1104 inf

166 1026 1045 inf

167 1114 1124 inf

168 1129 1137 inf

173 1639 1649 inf

174 1530 1542 inf

179 1067 1074 inf

180 1024 1031 inf

185 1030 1036 inf

186 1007 1016 inf

191 1403 1411 inf

192 1349 1355 inf

197 1338 1343 inf

198 1404 1411 inf

2 13828 13836 inf

203 1332 1338 inf

204 1277 1285 inf

209 1531 1536 inf

210 1483 1488 inf

215 1260 1265 inf

216 1246 1253 inf

227 1595 1601 inf

228 1562 1565 inf

234 1564 1572 inf

3 13875 13883 inf

35 2235 2244 inf

36 2200 2213 inf

4 13513 13521 inf

42 1810 1816 inf

5 11304 11337 inf

6 10927 10954 inf

98 1863 1879 inf

id numBacktracks numAssignments avgtime

PH1.txt

15 3 167 2.4662201404571533

16 6 179 2.695343255996704

9 4 169 5.573627471923828

10 5 178 5.896251201629639

27 3 166 6.796313524246216

21 3 166 6.834631681442261

28 0 170 7.054620265960693

22 0 170 7.062765598297119

33 2 165 8.72816801071167

34 1 173 9.262332439422607

57 1 163 9.546559810638428

58 0 169 9.739192247390747

51 1 163 9.889007329940796

52 1 171 10.523918867111206

45 2 165 11.686494827270508

44 22 176 11.698625564575195

80 9 160 12.249966859817505

79 19 166 12.261112928390503

91 18 165 12.33145785331726

86 16 167 12.574416399002075

46 3 175 12.57712197303772

92 9 160 12.581699848175049

74 26 177 12.599077224731445

85 24 171 12.716299295425415

75 1 163 12.878213167190552

81 1 163 12.906102180480957

93 1 163 12.919423341751099

87 1 163 12.939806938171387

39 2 165 13.070511102676392

43 57 206 13.12441635131836

73 60 207 13.214427947998047

14 894 1049 13.26000428199768

76 0 169 13.425928831100464

82 0 169 13.47541856765747

88 0 169 13.495250940322876

56 216 370 13.629273414611816

94 1 170 13.640524864196777

38 39 193 13.747742652893066

99 6 171 13.752828598022461

123 3 166 13.851716041564941

40 0 173 14.025112867355347

68 33 184 14.082902669906616

62 30 181 14.18409252166748

69 1 163 14.210471391677856

63 1 163 14.25808072090149

117 3 166 14.555766820907593

61 65 212 14.824253559112549

70 0 170 14.869603633880615

64 0 170 14.945333242416382

124 1 173 15.241826295852661

67 74 221 15.24743103981018

118 1 173 15.306832790374756

100 10 184 15.539030075073242

8 401 559 16.652371883392334

146 9 161 17.203067541122437

158 9 161 17.21139168739319

110 22 177 17.508492708206177

37 119 268 17.642090320587158

111 5 169 17.660308599472046

140 26 178 17.769222497940063

152 16 168 17.909550666809082

128 30 182 17.91742730140686

147 1 163 18.202961206436157

105 5 169 18.249223709106445

159 1 163 18.249793529510498

129 1 163 18.346155405044556

134 33 185 18.382702350616455

153 1 163 18.427193641662598

104 39 194 18.560001850128174

135 1 163 18.579699754714966

141 1 163 18.717267274856567

112 0 173 18.777814388275146

145 20 168 18.830185651779175

157 19 167 18.885185480117798

106 0 173 19.093579292297363

154 0 169 19.219019889831543

151 25 173 19.228373289108276

148 0 170 19.298920154571533

130 0 170 19.3116557598114

136 0 170 19.350865602493286

160 1 170 19.366278648376465

165 2 165 19.40325355529785

142 0 170 19.537020444869995

219 1 163 19.81794810295105

243 1 163 19.964136362075806

237 1 163 19.98901891708374

213 1 163 20.17603898048401

26 398 550 20.392542839050293

20 395 547 20.442756414413452

50 542 696 20.50477910041809

171 2 165 20.511451959609985

166 1 173 20.96562433242798

220 0 169 21.209613800048828

238 0 169 21.300674200057983

231 1 163 21.563074588775635

225 1 163 21.602409839630127

244 0 169 21.607920169830322

214 1 171 22.014971256256104

172 1 173 22.191352367401123

386 9 160 22.274067163467407

350 9 160 22.487664461135864

338 9 160 22.51682734489441

374 9 160 22.617146730422974

326 9 160 22.782989740371704

362 9 160 22.855517864227295

344 9 160 22.85959482192993

232 1 171 22.883102655410767

380 9 160 22.89901328086853

139 61 209 22.91781210899353

356 16 167 22.944616317749023

368 16 167 22.963036060333252

226 1 171 22.989773273468018

207 2 165 23.261906385421753

206 22 176 23.271153688430786

266 9 160 23.296746492385864

278 9 160 23.324439764022827

320 26 177 23.449817895889282

332 26 177 23.496537446975708

343 19 166 23.639667987823486

260 26 177 23.695772171020508

200 22 176 23.712026357650757

248 30 181 23.751546144485474

373 18 165 23.75394582748413

379 18 165 23.821245193481445

361 18 165 23.868035316467285

272 16 167 23.901875495910645

201 2 165 23.919256925582886

177 2 165 23.94618034362793

254 33 184 23.98549222946167

302 9 160 23.99236297607422

183 2 165 23.998132467269897

133 75 223 24.03669238090515

127 66 214 24.056889295578003

349 19 166 24.101198434829712

375 1 163 24.140433311462402

385 18 165 24.267929553985596

325 19 166 24.274169206619263

314 9 160 24.2819983959198

327 1 163 24.321321725845337

321 1 163 24.323086738586426

351 1 163 24.324984073638916

357 1 163 24.347660303115845

182 22 176 24.348832607269287

381 1 163 24.387383937835693

387 1 163 24.39106035232544

109 59 210 24.41182565689087

339 1 163 24.412262678146362

369 1 163 24.429200649261475

333 1 163 24.435051918029785

337 19 166 24.479894876480103

363 1 163 24.527968883514404

345 1 163 24.541202068328857

296 26 177 24.60652804374695

355 24 171 24.662633657455444

176 39 193 24.76745295524597

261 1 163 24.861722469329834

249 1 163 24.933627128601074

255 1 163 24.959035634994507

279 1 163 24.95949149131775

273 1 163 24.974727153778076

267 1 163 24.976691246032715

364 0 168 25.059072256088257

308 16 167 25.1153781414032

367 24 171 25.12597131729126

195 2 165 25.1563081741333

189 2 165 25.16354465484619

265 19 166 25.166021585464478

194 22 176 25.210590600967407

309 1 163 25.216314792633057

32 690 845 25.22872281074524

277 18 165 25.253255605697632

301 19 166 25.282124519348145

370 0 169 25.34464693069458

284 30 181 25.396191835403442

358 0 169 25.44347095489502

334 0 169 25.44835114479065

346 0 169 25.466958045959473

208 3 175 25.50743532180786

178 0 173 25.520888090133667

328 0 169 25.559014320373535

297 1 163 25.568792581558228

352 0 169 25.589325666427612

322 0 169 25.596288442611694

271 24 171 25.614611625671387

188 39 193 25.63947081565857

340 0 169 25.712018728256226

376 1 170 25.739736557006836

313 18 165 25.777568101882935

315 1 163 25.808196306228638

268 0 169 25.825302600860596

303 1 163 25.8632869720459

382 1 170 25.878249406814575

202 3 175 25.942861318588257

262 0 169 25.96345281600952

388 1 170 25.96654462814331

285 1 163 26.02172541618347

274 0 169 26.048994302749634

184 3 175 26.210391759872437

280 1 170 26.305262565612793

250 0 170 26.39325976371765

310 0 169 26.483816862106323

256 0 170 26.483903646469116

307 24 171 26.668569564819336

196 0 173 26.79079818725586

304 0 170 27.08699893951416

190 0 173 27.13273286819458

316 1 170 27.269334316253662

298 0 170 27.305962085723877

319 60 207 27.440760374069214

286 0 170 27.553502559661865

259 60 207 28.323129653930664

331 60 207 28.367019414901733

290 33 184 28.862225770950317

295 60 207 29.108986139297485

205 57 206 29.31572437286377

199 57 206 29.660932540893555

291 1 163 29.67953658103943

247 65 212 30.037803411483765

253 74 221 30.34654188156128

283 65 212 30.580281019210815

292 0 170 31.072974920272827

193 57 206 33.57208490371704

181 57 206 33.83038401603699

98 690 847 34.90339422225952

122 216 371 35.392730712890625

103 117 268 35.50916004180908

187 119 268 40.57684278488159

289 74 221 41.5517373085022

242 216 370 41.71696877479553

236 216 370 42.12146353721619

175 119 268 44.44314384460449

218 216 370 46.75983142852783

230 216 370 46.87961030006409

116 542 697 60.38128876686096

212 542 696 68.71245551109314

224 542 696 79.33186721801758

164 690 845 84.90264439582825

55 4100 4251 104.35637664794922

170 690 845 105.28568124771118

13 10463 10619 132.67609691619873

7 6487 6641 203.75369095802307

49 8294 8445 221.3596110343933

19 6583 6732 257.7340202331543

25 6663 6812 260.0412509441376

31 8520 8672 266.05954670906067

1 171053 171099 inf

101 2746 2896 inf

102 1633 1803 inf

107 2961 3085 inf

108 1968 2111 inf

11 10182 10310 inf

113 3651 3773 inf

114 2653 2796 inf

115 3339 3378 inf

119 2775 2909 inf

12 10109 10253 inf

120 1494 1652 inf

121 2974 3014 inf

125 3844 3980 inf

126 2454 2610 inf

131 2226 2348 inf

132 1898 2040 inf

137 2849 2971 inf

138 1947 2090 inf

143 2321 2443 inf

144 1866 2007 inf

149 3438 3558 inf

150 2465 2608 inf

155 3595 3716 inf

156 2627 2768 inf

161 3564 3688 inf

162 2588 2731 inf

163 2832 2872 inf

167 1466 1616 inf

168 1284 1454 inf

169 2320 2360 inf

17 16688 16832 inf

173 1972 2120 inf

174 1380 1547 inf

179 2411 2533 inf

18 16681 16838 inf

180 1584 1727 inf

185 1756 1878 inf

186 1386 1529 inf

191 2137 2257 inf

192 1477 1618 inf

197 2137 2260 inf

198 1668 1811 inf

2 162560 162604 inf

203 3219 3341 inf

204 2395 2535 inf

209 3168 3290 inf

210 2345 2486 inf

211 3130 3171 inf

215 2217 2353 inf

216 1115 1274 inf

217 2276 2316 inf

221 1741 1878 inf

222 1309 1466 inf

223 2630 2670 inf

227 2196 2330 inf

228 1113 1267 inf

229 2389 2428 inf

23 8394 8523 inf

233 2137 2275 inf

234 1535 1694 inf

235 2773 2812 inf

239 3193 3328 inf

24 7570 7718 inf

240 2116 2271 inf

241 2814 2855 inf

245 3093 3227 inf

246 2124 2281 inf

251 1713 1834 inf

252 1520 1662 inf

257 2288 2412 inf

258 1531 1672 inf

263 1623 1746 inf

264 1514 1657 inf

269 1714 1837 inf

270 1319 1462 inf

275 1731 1854 inf

276 1367 1509 inf

281 1722 1842 inf

282 1372 1513 inf

287 1514 1637 inf

288 1361 1503 inf

29 8737 8871 inf

293 2057 2181 inf

294 1448 1589 inf

299 1648 1769 inf

3 170417 170460 inf

30 9377 9521 inf

300 1455 1598 inf

305 2054 2178 inf

306 1568 1710 inf

311 2149 2269 inf

312 1651 1791 inf

317 2102 2225 inf

318 1670 1812 inf

323 1775 1898 inf

324 1506 1649 inf

329 1975 2097 inf

330 1331 1472 inf

335 1753 1876 inf

336 1441 1584 inf

341 2349 2470 inf

342 1644 1786 inf

347 3056 3180 inf

348 2205 2346 inf

35 4122 4273 inf

353 3038 3161 inf

354 2173 2315 inf

359 3192 3314 inf

36 3825 3995 inf

360 2396 2538 inf

365 3189 3309 inf

366 2400 2541 inf

371 3088 3211 inf

372 2343 2485 inf

377 3091 3215 inf

378 2328 2471 inf

383 3136 3258 inf

384 2340 2481 inf

389 3049 3170 inf

390 2321 2462 inf

4 163250 163295 inf

41 4748 4870 inf

42 4413 4554 inf

47 6221 6343 inf

48 7208 7349 inf

5 71853 72033 inf

53 4913 5049 inf

54 4122 4279 inf

59 8469 8606 inf

6 69572 69753 inf

60 8289 8446 inf

65 3679 3802 inf

66 4018 4160 inf

71 4528 4652 inf

72 4239 4380 inf

77 4068 4192 inf

78 3974 4117 inf

83 5687 5811 inf

84 5697 5840 inf

89 5926 6050 inf

90 6819 6960 inf

95 5813 5936 inf

96 6727 6868 inf

97 7443 7484 inf

PH2.txt

27 5 12 0.5021519660949707

15 13 29 0.5332314968109131

25 7 14 0.5610296726226807

21 9 17 0.6320071220397949

91 5 9 0.639176607131958

19 12 19 0.6403141021728516

79 5 9 0.7506513595581055

93 5 9 0.7738461494445801

87 5 10 0.7934973239898682

83 5 10 0.8572728633880615

22 12 20 0.8612499237060547

85 5 10 0.8649160861968994

81 5 10 0.8702785968780518

28 12 19 0.8867340087890625

94 4 8 0.8888192176818848

73 10 15 0.9203193187713623

157 5 10 0.927952766418457

145 5 10 0.9876508712768555

75 7 13 1.0059657096862793

379 5 9 1.016632080078125

82 5 10 1.0271096229553223

361 5 9 1.0398824214935303

57 8 17 1.0425567626953125

273 4 8 1.0456268787384033

159 7 12 1.055290937423706

84 7 12 1.0580427646636963

135 5 11 1.065976858139038

153 5 11 1.0684928894042969

343 5 9 1.0742707252502441

385 5 9 1.078061580657959

92 7 11 1.0963695049285889

151 6 12 1.1142451763153076

373 5 9 1.1216440200805664

325 5 9 1.1270596981048584

80 8 12 1.1349542140960693

77 13 18 1.1357972621917725

147 5 11 1.1378941535949707

23 24 31 1.141362190246582

277 5 9 1.1428403854370117

271 5 9 1.154571294784546

265 5 9 1.1676287651062012

387 5 9 1.1751749515533447

349 5 9 1.1790211200714111

133 6 12 1.1939587593078613

357 5 10 1.2109317779541016

381 5 9 1.2152345180511475

363 5 9 1.226940393447876

279 5 9 1.2340490818023682

139 11 17 1.2384343147277832

30 20 28 1.2601406574249268

355 5 10 1.2624073028564453

26 23 30 1.2689433097839355

345 5 10 1.2699992656707764

255 4 9 1.276125192642212

76 10 16 1.2768864631652832

369 5 10 1.3153183460235596

160 7 12 1.3157784938812256

46 3 13 1.3227739334106445

88 9 14 1.3254356384277344

96 6 10 1.3273861408233643

347 5 10 1.330840826034546

43 12 20 1.3310856819152832

375 7 11 1.3356215953826904

388 4 8 1.3632473945617676

367 5 10 1.3677175045013428

148 8 14 1.3771741390228271

351 5 10 1.3858904838562012

20 29 36 1.3939785957336426

337 5 10 1.3963921070098877

253 5 10 1.3965251445770264

329 5 10 1.3970041275024414

353 5 10 1.40440034866333

267 5 10 1.4218497276306152

158 8 13 1.4245035648345947

129 7 14 1.429542064666748

319 10 15 1.4327664375305176

364 4 8 1.445899486541748

327 5 10 1.4547553062438965

141 8 15 1.4680087566375732

16 67 83 1.4681622982025146

376 6 10 1.477433204650879

127 10 16 1.4821319580078125

382 4 8 1.4824764728546143

146 11 16 1.5040853023529053

331 10 15 1.5159897804260254

346 5 10 1.5266814231872559

86 10 15 1.5292105674743652

280 4 8 1.5295443534851074

259 10 15 1.536376953125

45 8 18 1.5452773571014404

352 5 10 1.5634477138519287

123 9 20 1.5849242210388184

380 7 11 1.6078977584838867

344 8 12 1.6152703762054443

78 18 23 1.6241462230682373

339 5 11 1.6342954635620117

386 7 11 1.6378865242004395

348 7 12 1.660780906677246

350 8 12 1.6618852615356445

374 7 11 1.6673293113708496

269 5 10 1.6795053482055664

362 7 11 1.682234525680542

247 10 15 1.716372013092041

154 9 15 1.7203497886657715

354 7 12 1.7243874073028564

333 7 13 1.7349741458892822

261 7 13 1.7382373809814453

321 7 13 1.7464900016784668

74 18 23 1.7468090057373047

249 7 13 1.751293420791626

268 5 10 1.7772433757781982

9 34 53 1.7940125465393066

323 13 18 1.8073914051055908

326 8 12 1.8233747482299805

335 13 18 1.8338501453399658

237 8 17 1.8481569290161133

278 7 11 1.8535585403442383

142 9 16 1.8586599826812744

390 6 10 1.869471549987793

330 7 12 1.9388973712921143

384 6 10 1.9624032974243164

130 10 17 1.9826786518096924

272 7 11 1.9831933975219727

328 5 10 1.9886574745178223

152 16 22 2.0008761882781982

266 8 12 2.0149624347686768

274 7 11 2.0289947986602783

340 8 14 2.029491662979126

143 17 23 2.0332982540130615

136 10 16 2.0480973720550537

144 22 28 2.0566680431365967

243 8 17 2.058300256729126

69 4 9 2.0971271991729736

67 5 10 2.0974066257476807

256 6 11 2.0976991653442383

358 9 14 2.102383613586426

117 12 24 2.1078667640686035

263 11 15 2.1250360012054443

334 10 16 2.1274492740631104

65 11 16 2.129345655441284

134 12 18 2.136793851852417

140 20 26 2.17260479927063

270 7 12 2.186832904815674

282 6 10 2.206218719482422

109 15 25 2.2137112617492676

219 8 17 2.216611623764038

181 11 18 2.2258048057556152

24 60 67 2.225957155227661

366 6 10 2.242979049682617

370 9 14 2.2455880641937256

368 10 15 2.2868969440460205

322 10 16 2.303300142288208

338 11 16 2.3187787532806396

341 21 26 2.3192667961120605

184 3 13 2.3309900760650635

128 18 24 2.3483572006225586

356 10 15 2.355193614959717

149 29 35 2.3650240898132324

324 18 23 2.3809494972229004

342 17 22 2.3954102993011475

264 11 15 2.416236639022827

63 7 13 2.4386136531829834

205 12 20 2.440049409866333

262 10 16 2.462473154067993

61 10 15 2.482823371887207

306 5 10 2.4842584133148193

7 24 38 2.488706588745117

199 12 20 2.4889044761657715

250 10 16 2.4935169219970703

58 28 37 2.5051181316375732

70 6 11 2.505258321762085

13 157 169 2.5576817989349365

305 8 13 2.562790870666504

66 15 20 2.60589599609375

336 18 23 2.607574939727783

150 33 39 2.642133951187134

309 4 9 2.685558319091797

332 18 23 2.714027166366577

183 8 18 2.731159210205078

313 5 10 2.7390732765197754

307 5 10 2.744616985321045

291 4 9 2.7507224082946777

301 5 10 2.7645061016082764

51 11 21 2.780123472213745

315 5 10 2.7848005294799805

103 21 31 2.7937817573547363

202 3 13 2.817357301712036

289 5 10 2.8181746006011963

251 11 16 2.8469316959381104

260 18 23 2.872567892074585

175 17 25 2.904736042022705

208 3 13 2.90919828414917

320 18 23 2.938035726547241

299 12 17 2.940579414367676

111 18 31 2.941270112991333

64 10 16 2.973938226699829

213 11 21 2.986142158508301

254 12 17 2.9972517490386963

162 39 44 3.0085866451263428

95 29 33 3.014223337173462

303 5 11 3.0184755325317383

131 18 24 3.023622751235962

68 12 17 3.0278189182281494

310 5 10 3.06211519241333

248 18 23 3.074354410171509

177 14 24 3.0873661041259766

283 10 15 3.123805522918701

90 37 42 3.1428914070129395

295 10 15 3.1682915687561035

44 31 39 3.169808864593506

39 14 24 3.2185072898864746

201 8 18 3.2460243701934814

300 11 16 3.2543540000915527

37 17 25 3.2554943561553955

297 7 13 3.2604894638061523

292 6 11 3.26615047454834

285 7 13 3.2903785705566406

161 42 47 3.3212497234344482

62 18 23 3.321491241455078

287 11 16 3.346015453338623

40 12 22 3.3463525772094727

316 7 12 3.363286256790161

207 8 18 3.3669919967651367

178 12 22 3.4248764514923096

308 9 14 3.477257251739502

89 36 41 3.501448154449463

304 8 14 3.527268171310425

105 21 35 3.676419734954834

302 11 16 3.686049699783325

314 10 15 3.6952567100524902

252 15 20 3.699746608734131

298 9 15 3.7993056774139404

55 72 78 3.8458364009857178

231 9 19 3.857219934463501

193 12 20 3.8944926261901855

33 25 41 3.9373514652252197

389 29 33 3.9507458209991455

378 32 37 3.9621036052703857

286 10 16 3.962127685546875

290 12 17 3.988651752471924

124 42 53 4.025980234146118

156 51 57 4.037691831588745

112 25 38 4.053159236907959

288 15 20 4.143144607543945

383 29 33 4.213739395141602

187 17 25 4.237663507461548

377 32 37 4.239787340164185

225 11 21 4.322875738143921

296 18 23 4.375451564788818

196 8 18 4.429660320281982

195 12 22 4.501065492630005

284 18 23 4.515825271606445

155 51 57 4.54146933555603

189 14 24 4.56522536277771

72 38 43 4.5987632274627686

372 37 42 4.638177156448364

238 28 37 4.667264938354492

71 37 42 4.669415235519409

190 12 22 4.790829658508301

312 23 28 4.7941131591796875

371 36 41 4.810319185256958

244 28 37 4.844522476196289

318 24 29 5.004534721374512

360 37 42 5.058569431304932

132 36 42 5.071882724761963

52 39 49 5.092505216598511

220 24 33 5.21968674659729

365 31 35 5.254792213439941

182 27 34 5.301417827606201

165 25 41 5.36621356010437

38 41 49 5.550714731216431

359 36 41 5.592106103897095

317 31 36 5.623671770095825

118 44 56 5.693887710571289

104 53 63 5.779680013656616

121 91 99 5.819230079650879

99 54 77 5.865895986557007

206 31 39 5.946025848388672

200 31 39 5.964581489562988

281 29 33 5.984181642532349

110 64 74 6.030673265457153

14 357 369 6.094747066497803

311 36 41 6.125986576080322

294 38 43 6.1662304401397705

171 25 41 6.217966079711914

293 37 42 6.26639199256897

56 112 118 6.455010890960693

8 215 229 6.476794481277466

10 177 196 6.5046374797821045

276 37 42 6.629535436630249

138 55 60 6.63480544090271

176 41 49 6.652978897094727

275 36 41 6.685558080673218

232 32 42 6.807058572769165

258 38 43 6.825373411178589

137 51 56 6.895744800567627

235 72 78 7.100372076034546

106 52 66 7.1781415939331055

49 98 105 7.4286675453186035

257 37 42 7.55298113822937

188 41 49 7.5759007930755615

241 72 78 7.727869510650635

194 39 47 7.8397440910339355

214 39 49 8.299139261245728

29 190 198 8.397328615188599

226 39 49 8.482369422912598

115 113 122 9.062341690063477

122 163 171 9.069992542266846

217 72 78 10.11011791229248

229 75 82 10.80107069015503

236 112 118 10.859076738357544

242 112 118 11.194156885147095

50 152 159 11.280312299728394

211 98 105 11.40314245223999

223 98 105 12.784931182861328

218 108 114 14.006426095962524

116 189 198 14.657426118850708

230 132 139 15.699601173400879

224 152 159 17.193705558776855

31 279 289 19.310224771499634

212 152 159 19.947248697280884

97 438 455 25.82626700401306

163 279 289 26.77943229675293

34 353 369 26.830819845199585

169 279 289 34.92964553833008

172 353 369 47.17431330680847

113 699 710 49.83116698265076

166 353 369 52.58780217170715

100 667 690 55.59996676445007

32 1014 1024 70.27771830558777

47 1543 1550 112.19749903678894

170 1014 1024 117.318608045578

164 1014 1024 123.98436713218689

98 1939 1956 147.74764895439148

48 1973 1980 150.80484676361084

41 2183 2190 167.1307408809662

209 1543 1550 186.5784273147583

203 1543 1550 198.01237177848816

197 1676 1683 201.01289010047913

185 1436 1443 219.84637761116028

42 3026 3033 236.02822947502136

191 2183 2190 238.751398563385

210 1973 1980 244.40619230270386

186 1811 1818 273.70160579681396

204 1973 1980 279.8657581806183

198 2300 2307 295.82549500465393

1 5171 5214 inf

101 4235 4256 inf

102 4296 4317 inf

107 3124 3133 inf

108 2825 2836 inf

11 10467 10476 inf

114 4572 4582 inf

119 3107 3114 inf

12 10386 10397 inf

120 3258 3273 inf

125 5467 5480 inf

126 5042 5052 inf

167 2195 2214 inf

168 2010 2030 inf

17 17109 17122 inf

173 2822 2840 inf

174 2643 2661 inf

179 2170 2177 inf

18 17035 17046 inf

180 2017 2028 inf

192 2749 2753 inf

2 5131 5173 inf

215 1919 1938 inf

216 1982 1997 inf

221 2066 2077 inf

222 1933 1946 inf

227 2672 2685 inf

228 2576 2588 inf

233 2735 2754 inf

234 2552 2560 inf

239 2740 2758 inf

240 2309 2325 inf

245 2932 2944 inf

246 2981 2991 inf

3 5164 5206 inf

35 4621 4637 inf

36 4520 4539 inf

4 5164 5208 inf

5 5039 5073 inf

53 4230 4247 inf

54 4211 4224 inf

59 5206 5216 inf

6 5038 5070 inf

60 4963 4971 inf

PH3.txt

22 597 609 26.31856870651245

28 607 617 29.981339931488037

82 393 401 39.03451180458069

94 372 380 39.944109201431274

76 461 469 42.97999358177185

88 465 473 48.032439947128296

64 455 465 51.167439699172974

70 507 515 55.78283643722534

148 526 536 56.11328172683716

21 1308 1320 58.657466173172

160 528 538 58.71049118041992

352 393 401 60.79485201835632

388 372 380 60.805415630340576

26 1303 1316 62.705936670303345

27 1335 1345 64.23638010025024

142 527 537 66.14698338508606

340 440 448 68.01566410064697

346 393 401 68.04722952842712

382 372 380 68.46900677680969

154 529 539 69.15458583831787

376 435 443 70.57004523277283

334 461 469 71.40130662918091

364 372 380 73.82947039604187

370 465 473 74.37921190261841

268 363 371 74.77938222885132

304 435 444 75.1350371837616

130 499 510 75.14156794548035

16 4041 4064 75.67391514778137

20 1821 1834 75.82040071487427

328 389 397 76.00960683822632

316 455 463 77.30744862556458

280 372 380 77.96558690071106

298 437 446 79.47789192199707

19 1947 1960 81.67606115341187

322 461 469 82.67649984359741

286 455 465 83.27312302589417

136 562 572 83.44982504844666

310 461 469 83.45299887657166

80 917 926 83.65489029884338

358 465 473 84.12004089355469

262 424 432 84.91520643234253

81 932 940 87.02629518508911

25 1848 1861 87.81390070915222

93 874 882 88.23296999931335

79 959 968 89.15868711471558

292 507 515 89.62846398353577

86 943 952 90.12734794616699

274 461 469 91.12289261817932

92 958 967 91.65068221092224

91 992 1001 98.50011038780212

74 1151 1161 99.47213649749756

75 1062 1070 99.8995611667633

256 507 515 103.55865502357483

87 1076 1084 104.60995101928711

73 1211 1221 105.9804105758667

68 1086 1096 109.50185513496399

85 1182 1191 115.45056748390198

63 1097 1107 118.20717000961304

146 1159 1171 118.88778495788574

69 1174 1182 126.82175421714783

350 917 926 127.13453388214111

147 1173 1183 127.6572916507721

152 991 1003 127.70223212242126

158 1227 1239 129.10654091835022

61 1292 1302 130.76382899284363

62 1283 1293 131.26662611961365

159 1161 1171 133.18511819839478

387 874 882 139.0244104862213

368 943 952 139.54975366592407

58 1821 1837 139.7568075656891

351 932 940 139.76059103012085

386 958 967 140.32063913345337

67 1400 1410 142.11721396446228

344 917 926 143.34949278831482

349 959 968 145.03630328178406

145 1267 1279 146.84244179725647

140 1244 1256 149.06561923027039

380 958 967 149.69073152542114

153 1170 1180 149.84265327453613

338 1044 1054 150.231369972229

356 943 952 150.97238945960999

345 932 940 152.00690937042236

381 874 882 152.09304881095886

134 1126 1138 157.653870344162

339 1012 1020 158.49353194236755

157 1357 1369 158.50069379806519

141 1187 1197 159.57854843139648

375 1012 1020 159.76409363746643

308 945 955 161.13598442077637

15 8466 8489 161.49579763412476

374 1104 1113 163.30327224731445

385 992 1001 163.62666749954224

332 1151 1161 164.27090644836426

343 959 968 164.76440167427063

326 909 918 165.1874532699585

363 884 892 166.73386979103088

369 1076 1084 166.9133915901184

337 1096 1106 167.66617369651794

362 958 967 168.54192066192627

272 925 934 172.54508590698242

333 1062 1070 172.96050715446472

302 1094 1104 173.99497032165527

379 992 1001 174.9499363899231

303 1036 1045 175.5190031528473

327 926 934 176.8391137123108

290 1086 1096 178.63260626792908

315 1054 1062 179.28163528442383

266 907 916 180.27907609939575

139 1366 1378 180.29584193229675

325 939 948 180.967431306839

129 1166 1177 181.8865385055542

373 1138 1147 182.30761337280273

267 884 892 182.70397996902466

151 1359 1371 183.0310561656952

320 1151 1161 183.20243740081787

357 1076 1084 184.44185090065002

331 1211 1221 184.95856308937073

314 1140 1150 185.05679941177368

279 892 900 185.7753894329071

367 1182 1191 188.19995141029358

278 946 955 189.14876008033752

301 1136 1146 191.785382270813

128 1356 1368 192.1538050174713

135 1257 1267 192.57122564315796

296 1149 1159 194.31105136871338

309 1080 1088 194.76802563667297

361 992 1001 196.8831684589386

321 1062 1070 196.96859502792358

297 1056 1065 199.1134901046753

265 949 958 201.4691517353058

52 2383 2399 202.66152143478394

254 1086 1096 203.417973279953

285 1097 1107 206.5851399898529

319 1211 1221 207.29337692260742

313 1190 1200 207.5842206478119

355 1182 1191 208.30114936828613

261 1010 1018 208.75844025611877

277 980 989 209.81700491905212

260 1118 1128 210.17368841171265

273 1072 1080 210.90291714668274

291 1174 1182 213.48242568969727

295 1197 1207 214.22136116027832

284 1283 1293 215.37053871154785

307 1222 1232 221.67670845985413

283 1292 1302 228.8804636001587

259 1178 1188 231.96553349494934

271 1164 1173 236.63232612609863

133 1553 1565 241.42263054847717

289 1400 1410 242.2254912853241

255 1174 1182 247.77501487731934

10 7389 7408 283.7698075771332

9 7439 7458 284.7905807495117

253 1400 1410 286.736310005188

57 4494 4510 326.3376610279083

250 455 465 365.37584924697876

55 6254 6265 421.12820768356323

56 6607 6618 422.4059009552002

46 5188 5198 447.67111921310425

45 5209 5219 454.04879879951477

51 5578 5594 474.99775648117065

13 25988 26005 489.18031454086304

127 1439 1451 512.1078379154205

40 5300 5310 528.0498602390289

39 5318 5328 553.3165323734283

1 333209 333236 inf

100 4728 4756 inf

101 5849 5869 inf

102 4802 4829 inf

103 3756 3784 inf

104 3343 3365 inf

105 2568 2588 inf

106 2550 2571 inf

107 3069 3091 inf

108 2743 2757 inf

109 3091 3115 inf

11 17989 18011 inf

110 2942 2965 inf

111 2538 2558 inf

112 2443 2458 inf

113 2808 2822 inf

114 2827 2841 inf

115 2216 2227 inf

116 2203 2212 inf

117 2103 2119 inf

118 2082 2097 inf

119 2404 2419 inf

12 17909 17934 inf

120 2186 2209 inf

121 2363 2376 inf

122 2276 2286 inf

123 2184 2198 inf

124 2107 2122 inf

125 2329 2345 inf

126 2229 2245 inf

131 5295 5317 inf

132 4908 4922 inf

137 5543 5562 inf

138 4991 5004 inf

14 31867 31888 inf

143 6890 6909 inf

144 6689 6707 inf

149 8471 8485 inf

150 8016 8034 inf

155 6742 6761 inf

156 6242 6252 inf

161 8374 8389 inf

162 7998 8013 inf

163 5190 5201 inf

164 4948 4958 inf

165 2942 2964 inf

166 2856 2876 inf

167 3245 3267 inf

168 3104 3130 inf

169 3470 3483 inf

17 32054 32074 inf

170 3409 3417 inf

171 2780 2805 inf

172 2693 2714 inf

173 3071 3093 inf

174 2950 2976 inf

175 2565 2591 inf

176 2363 2390 inf

177 1768 1791 inf

178 1763 1785 inf

179 2106 2122 inf

18 32241 32261 inf

180 2059 2081 inf

181 2076 2094 inf

182 1961 1990 inf

183 1595 1619 inf

184 1566 1585 inf

185 1636 1652 inf

186 1641 1659 inf

187 1776 1789 inf

188 1736 1754 inf

189 1499 1520 inf

190 1466 1487 inf

191 1632 1650 inf

192 1612 1633 inf

193 1516 1539 inf

194 1492 1517 inf

195 1323 1337 inf

196 1292 1316 inf

197 1431 1449 inf

198 1433 1451 inf

199 1445 1468 inf

2 317229 317253 inf

200 1398 1420 inf

201 1239 1261 inf

202 1232 1254 inf

203 1305 1324 inf

204 1243 1259 inf

205 1291 1307 inf

206 1275 1287 inf

207 1153 1167 inf

208 1146 1168 inf

209 1212 1230 inf

210 1182 1203 inf

211 1045 1057 inf

212 1035 1044 inf

213 998 1015 inf

214 1011 1026 inf

215 1051 1061 inf

216 1020 1044 inf

217 973 985 inf

218 964 970 inf

219 943 957 inf

220 950 964 inf

221 989 1006 inf

222 981 1003 inf

223 983 993 inf

224 983 991 inf

225 954 969 inf

226 953 962 inf

227 1007 1020 inf

228 973 995 inf

229 926 938 inf

23 17349 17363 inf

230 922 933 inf

231 908 922 inf

232 912 929 inf

233 931 943 inf

234 921 941 inf

235 850 857 inf

236 883 892 inf

237 821 831 inf

238 826 840 inf

239 894 909 inf

24 17677 17693 inf

240 873 894 inf

241 837 845 inf

242 842 853 inf

243 812 827 inf

244 812 824 inf

245 868 884 inf

246 858 877 inf

247 741 754 inf

248 721 732 inf

249 690 705 inf

251 3920 3942 inf

252 3520 3533 inf

257 4024 4034 inf

258 3930 3948 inf

263 4044 4065 inf

264 3839 3853 inf

269 3843 3863 inf

270 3764 3776 inf

275 4074 4094 inf

276 3951 3967 inf

281 3596 3613 inf

282 3504 3516 inf

287 4582 4595 inf

288 4288 4303 inf

29 13067 13078 inf

293 4766 4785 inf

294 4366 4380 inf

299 4914 4930 inf

3 330120 330146 inf

30 14014 14030 inf

300 4716 4726 inf

305 5069 5090 inf

306 4790 4803 inf

31 8609 8640 inf

311 4981 4996 inf

312 4613 4626 inf

317 5166 5185 inf

318 4853 4863 inf

32 8456 8476 inf

323 5178 5191 inf

324 5429 5441 inf

329 4460 4475 inf

33 7482 7504 inf

330 4632 4647 inf

335 6024 6034 inf

336 6214 6229 inf

34 7472 7492 inf

341 5752 5768 inf

342 5701 5719 inf

347 6128 6138 inf

348 6213 6229 inf

35 8623 8642 inf

353 6361 6377 inf

354 6241 6255 inf

359 5352 5375 inf

36 8643 8666 inf

360 5077 5088 inf

365 4466 4480 inf

366 4475 4486 inf

37 6751 6779 inf

371 5726 5747 inf

372 5364 5375 inf

377 5679 5697 inf

378 5499 5514 inf

38 6628 6635 inf

383 5131 5147 inf

384 5261 5282 inf

389 5647 5662 inf

390 5598 5618 inf

4 314351 314377 inf

41 7867 7889 inf

42 7932 7956 inf

43 8346 8370 inf

44 8264 8268 inf

47 7877 7897 inf

48 7920 7941 inf

49 7173 7185 inf

5 127621 127680 inf

50 7081 7098 inf

53 8914 8929 inf

54 8628 8652 inf

59 11099 11113 inf

6 124743 124802 inf

60 11400 11421 inf

65 7345 7362 inf

66 7425 7439 inf

7 18022 18033 inf

71 7157 7180 inf

72 7352 7369 inf

77 9078 9088 inf

78 9953 9968 inf

8 18279 18304 inf

83 8636 8648 inf

84 9121 9134 inf

89 7899 7921 inf

90 8082 8101 inf

95 7373 7386 inf

96 7855 7870 inf

97 8771 8799 inf

98 7729 7747 inf

99 5219 5248 inf

PH4.txt

21 423 439 20.13857412338257

27 453 469 23.094382286071777

93 300 314 26.46717929840088

75 342 356 28.15478014945984

81 330 344 28.26208472251892

87 362 376 32.21288871765137

69 359 374 37.38044857978821

159 367 382 37.58044195175171

387 300 314 38.89905118942261

63 383 398 39.317607402801514

147 413 428 39.785823345184326

141 403 418 41.34674048423767

381 300 314 41.89944410324097

351 330 344 42.6612753868103

339 338 352 44.03883743286133

363 294 308 44.216604709625244

345 330 344 45.180485248565674

333 342 356 45.413365602493286

15 2388 2407 46.11230731010437

153 431 447 46.372802734375

22 1037 1053 46.991493940353394

327 319 332 47.00094485282898

375 356 370 47.43147659301758

279 288 302 48.77853512763977

321 342 356 48.8765983581543

369 362 376 49.38921666145325

129 391 407 51.511696577072144

28 1045 1061 51.87194466590881

315 351 366 52.24974465370178

135 423 439 52.32118463516235

261 322 336 52.42763662338257

267 310 324 53.64140176773071

309 355 370 54.36033248901367

357 362 376 54.99278807640076

16 2893 2912 55.10010623931885

273 350 364 56.652729988098145

297 368 382 56.914085388183594

303 379 394 57.98972988128662

291 359 374 59.42937922477722

285 383 398 61.90706729888916

255 359 374 62.289994955062866

94 659 673 64.46970462799072

82 690 704 67.14169669151306

76 795 809 71.62133121490479

92 980 991 79.46543431282043

88 806 820 79.77365469932556

57 1277 1292 81.36739945411682

70 801 816 87.16640949249268

80 1147 1158 88.05219721794128

64 855 870 88.94224214553833

74 1296 1307 91.52553915977478

148 871 886 95.08945536613464

160 861 876 95.4929690361023

388 659 673 96.61704802513123

352 690 704 102.10223817825317

382 659 673 105.6846342086792

142 937 952 107.56673669815063

386 980 991 109.21105146408081

346 690 704 110.92928719520569

340 741 755 111.9478166103363

62 1354 1365 112.6565158367157

364 639 653 113.46212387084961

154 923 939 115.4731936454773

86 1427 1438 115.66121411323547

280 603 617 116.1746506690979

158 1397 1410 117.28305006027222

334 795 809 117.84597253799438

380 980 991 117.99858784675598

123 1596 1612 118.70255780220032

328 675 688 119.03516483306885

376 782 796 119.14439177513123

362 898 909 121.07051944732666

338 1097 1108 121.08327150344849

51 1633 1649 121.53734731674194

146 1527 1539 122.47139120101929

316 757 772 123.27592754364014

370 806 820 123.59395933151245

350 1147 1158 123.77155804634094

268 644 658 127.51741361618042

260 909 920 128.67319536209106

304 771 786 129.2043011188507

322 795 809 130.25100541114807

130 911 927 130.43235659599304

310 763 778 131.19570803642273

136 907 923 131.75934743881226

262 727 741 131.9127640724182

68 1633 1644 132.60366988182068

358 806 820 133.86885929107666

344 1147 1158 134.440571308136

298 804 818 136.49006628990173

266 877 888 137.24464106559753

274 748 762 138.48461532592773

292 801 816 140.15196919441223

374 1265 1276 140.5107204914093

332 1296 1307 140.69135189056396

140 1670 1682 141.8699860572815

56 2480 2492 142.1531264781952

286 855 870 143.19288563728333

302 1148 1159 144.28825879096985

296 1170 1181 145.3249409198761

326 1076 1087 146.04874324798584

278 940 951 149.54184079170227

20 3889 3903 150.64719104766846

128 1447 1459 150.8676962852478

320 1296 1307 155.84688711166382

256 801 816 157.7766900062561

314 1327 1338 159.4163384437561

26 3597 3611 160.03986406326294

152 1835 1848 161.04563760757446

58 2375 2390 164.28137826919556

368 1427 1438 166.85549139976501

284 1354 1365 170.92593955993652

308 1419 1430 171.42881679534912

250 855 870 174.24054193496704

356 1427 1438 190.3219256401062

134 2006 2019 194.86844086647034

91 2242 2253 196.70300459861755

272 1397 1408 197.00532913208008

290 1633 1644 200.43849301338196

79 2582 2593 214.6996796131134

254 1633 1644 220.59431672096252

50 3295 3308 221.95981860160828

52 2963 2979 232.18871784210205

73 3037 3048 232.45579314231873

14 14584 14602 267.5714604854584

124 3331 3347 270.88299012184143

85 3085 3096 274.8684139251709

61 3116 3127 277.9170641899109

249 383 398 299.3281316757202

385 2242 2253 301.03756880760193

67 3423 3434 304.0860764980316

19 8104 8118 315.498295545578

157 3193 3206 329.25986075401306

122 3743 3758 330.6532447338104

379 2242 2253 331.74748611450195

349 2582 2593 332.8363742828369

145 3454 3466 350.15179896354675

337 2640 2651 355.94882130622864

361 2116 2127 360.1176383495331

343 2582 2593 367.2077693939209

55 5805 5817 369.7377915382385

301 2584 2595 384.97479939460754

373 2810 2821 386.02418065071106

265 2027 2038 387.61447286605835

331 3037 3048 394.307147026062

277 2114 2125 395.93347334861755

259 2306 2317 397.36765027046204

295 2696 2707 403.0432107448578

139 3823 3835 403.46858191490173

118 3459 3477 406.1854798793793

25 9153 9167 412.6784031391144

313 2845 2856 417.9029800891876

325 2478 2489 418.33481550216675

367 3085 3096 436.7143974304199

151 3898 3911 437.8943557739258

319 3037 3048 449.99858593940735

307 3061 3072 456.40859842300415

127 3459 3471 457.5971086025238

283 3116 3127 463.25579047203064

355 3085 3096 487.3495600223541

13 25904 25922 487.5913710594177

117 1848 1866 498.2829210758209

289 3423 3434 502.6456353664398

133 4174 4187 511.57535576820374

271 2994 3005 516.8230249881744

49 7205 7218 582.394448518753

253 3423 3434 594.5682730674744

1 135780 135827 inf

10 16322 16344 inf

100 4271 4302 inf

101 5455 5477 inf

102 5149 5179 inf

103 3122 3144 inf

104 3063 3086 inf

105 2744 2764 inf

106 2593 2616 inf

107 3111 3129 inf

108 3121 3141 inf

109 2855 2876 inf

11 18596 18614 inf

110 2837 2856 inf

111 2537 2558 inf

112 2435 2457 inf

113 2810 2825 inf

114 2716 2733 inf

115 2528 2538 inf

116 2526 2539 inf

119 6187 6207 inf

12 18692 18711 inf

120 6407 6434 inf

121 7064 7079 inf

125 10140 10155 inf

126 9148 9171 inf

131 6333 6344 inf

132 6264 6281 inf

137 5962 5973 inf

138 4956 4974 inf

143 8088 8103 inf

144 7320 7338 inf

149 8093 8109 inf

150 7366 7383 inf

155 6868 6877 inf

156 6940 6959 inf

161 6905 6914 inf

162 7815 7832 inf

163 3363 3389 inf

164 3433 3456 inf

165 2969 2995 inf

166 2847 2877 inf

167 2788 2813 inf

168 2556 2584 inf

169 2780 2805 inf

17 31714 31735 inf

170 2781 2805 inf

171 2471 2501 inf

172 2386 2408 inf

173 2695 2720 inf

174 2492 2522 inf

175 1851 1865 inf

176 1914 1931 inf

177 1753 1768 inf

178 1744 1764 inf

179 2099 2116 inf

18 31747 31770 inf

180 2205 2224 inf

181 1681 1701 inf

182 1696 1710 inf

183 1615 1632 inf

184 1572 1593 inf

185 1678 1692 inf

186 1638 1655 inf

187 1622 1642 inf

188 1663 1682 inf

189 1553 1564 inf

190 1506 1526 inf

191 1717 1734 inf

192 1647 1664 inf

193 1415 1436 inf

194 1487 1509 inf

195 1374 1396 inf

196 1320 1339 inf

197 1502 1519 inf

198 1441 1458 inf

199 1302 1322 inf

2 132982 133034 inf

200 1322 1340 inf

201 1225 1235 inf

202 1254 1273 inf

203 1379 1396 inf

204 1371 1389 inf

205 1230 1254 inf

206 1249 1265 inf

207 1164 1176 inf

208 1178 1202 inf

209 1273 1286 inf

210 1261 1280 inf

211 1184 1196 inf

212 1171 1181 inf

213 1102 1120 inf

214 1104 1111 inf

215 1083 1100 inf

216 1247 1263 inf

217 1082 1089 inf

218 1082 1088 inf

219 1043 1062 inf

220 1035 1052 inf

221 1049 1065 inf

222 1027 1043 inf

223 1080 1092 inf

224 1071 1084 inf

225 1022 1031 inf

226 1018 1023 inf

227 1071 1086 inf

228 1086 1101 inf

229 1022 1032 inf

23 16988 17004 inf

230 1017 1026 inf

231 984 999 inf

232 984 1004 inf

233 980 996 inf

234 964 987 inf

235 969 981 inf

236 962 973 inf

237 923 930 inf

238 933 953 inf

239 943 961 inf

24 18423 18442 inf

240 959 983 inf

241 915 927 inf

242 908 919 inf

243 877 896 inf

244 872 877 inf

245 906 922 inf

246 896 920 inf

247 817 827 inf

248 805 815 inf

251 4586 4599 inf

252 4559 4578 inf

257 4814 4826 inf

258 3739 3758 inf

263 4730 4744 inf

264 4425 4441 inf

269 3682 3695 inf

270 3491 3509 inf

275 4961 4970 inf

276 4114 4132 inf

281 3698 3710 inf

282 3602 3619 inf

287 5053 5065 inf

288 4927 4940 inf

29 12734 12747 inf

293 4923 4935 inf

294 4390 4407 inf

299 5347 5359 inf

3 136203 136241 inf

30 12960 12978 inf

300 4887 4903 inf

305 4739 4753 inf

306 4721 4739 inf

31 7596 7619 inf

311 5120 5133 inf

312 4902 4922 inf

317 4755 4770 inf

318 4864 4882 inf

32 7905 7934 inf

323 6272 6287 inf

324 5482 5502 inf

329 4943 4958 inf

33 7764 7793 inf

330 4256 4270 inf

335 6442 6453 inf

336 6225 6242 inf

34 7551 7576 inf

341 5878 5892 inf

342 5448 5463 inf

347 5819 5830 inf

348 5839 5850 inf

35 8642 8662 inf

353 6090 6103 inf

354 5791 5808 inf

359 5703 5716 inf

36 8210 8236 inf

360 5531 5549 inf

365 4340 4354 inf

366 4662 4676 inf

37 6356 6371 inf

371 5632 5644 inf

372 5516 5534 inf

377 4980 4994 inf

378 5611 5626 inf

38 6551 6574 inf

383 5211 5223 inf

384 5580 5595 inf

389 5543 5556 inf

39 6037 6064 inf

390 5898 5915 inf

4 133095 133151 inf

40 5942 5967 inf

41 7969 7986 inf

42 8416 8435 inf

43 6806 6821 inf

44 6859 6876 inf

45 6322 6343 inf

46 6228 6247 inf

47 7364 7382 inf

48 7816 7835 inf

5 252960 253005 inf

53 8768 8783 inf

54 8934 8959 inf

59 10882 10900 inf

6 241432 241477 inf

60 11574 11597 inf

65 7912 7923 inf

66 7875 7892 inf

7 17832 17845 inf

71 7496 7505 inf

72 7403 7420 inf

77 9739 9751 inf

78 10753 10769 inf

8 18215 18237 inf

83 7882 7897 inf

84 8148 8166 inf

89 7924 7933 inf

9 16291 16314 inf

90 7640 7657 inf

95 7503 7515 inf

96 8182 8196 inf

97 6196 6224 inf

98 5399 5423 inf

99 5092 5116 inf

PH5.txt

21 5387 5406 215.0255572795868

27 5200 5218 234.03949451446533

22 5964 5983 237.26999354362488

93 3663 3678 321.7223014831543

81 3524 3538 331.62927746772766

75 4288 4305 386.7686574459076

87 4241 4256 396.8329577445984

147 4519 4534 456.84487295150757

159 4400 4417 467.6484622955322

69 4651 4666 481.1846544742584

63 4742 4759 483.44859290122986

153 4535 4551 547.8306379318237

141 4635 4654 575.49986743927

129 4429 4444 inf

15 33411 33432 inf

279 3168 3186 inf

321 3581 3597 inf

327 3164 3179 inf

333 3640 3653 inf

339 3671 3687 inf

345 3210 3225 inf

351 3351 3362 inf

363 2884 2893 inf

369 3135 3153 inf

375 3036 3042 inf

381 2943 2955 inf

387 3023 3042 inf

28 10450 10610 inf

315 3510 3660 inf

135 4230 4390 inf

261 3220 3360 inf

267 3100 3240 inf

309 3550 3700 inf

357 3620 3760 inf

16 28930 29120 inf

273 3500 3640 inf

297 3680 3820 inf

303 3790 3940 inf

291 3590 3740 inf

285 3830 3980 inf

255 3590 3740 inf

94 6590 6730 inf

82 6900 7040 inf

76 7950 8090 inf

92 9800 9910 inf

88 8060 8200 inf

57 12770 12920 inf

70 8010 8160 inf

80 11470 11580 inf

64 8550 8700 inf

74 12960 13070 inf

148 8710 8860 inf

160 8610 8760 inf

388 6590 6730 inf

352 6900 7040 inf

382 6590 6730 inf

142 9370 9520 inf

386 9800 9910 inf

346 6900 7040 inf

340 7410 7550 inf

62 13540 13650 inf

364 6390 6530 inf

154 9230 9390 inf

86 14270 14380 inf

280 6030 6170 inf

158 13970 14100 inf

334 7950 8090 inf

380 9800 9910 inf

123 15960 16120 inf

328 6750 6880 inf

376 7820 7960 inf

362 8980 9090 inf

338 10970 11080 inf

51 16330 16490 inf

146 15270 15390 inf

316 7570 7720 inf

370 8060 8200 inf

350 11470 11580 inf

268 6440 6580 inf

260 9090 9200 inf

304 7710 7860 inf

322 7950 8090 inf

130 9110 9270 inf

310 7630 7780 inf

136 9070 9230 inf

262 7270 7410 inf

68 16330 16440 inf

358 8060 8200 inf

344 11470 11580 inf

298 8040 8180 inf

266 8770 8880 inf

274 7480 7620 inf

292 8010 8160 inf

374 12650 12760 inf

332 12960 13070 inf

140 16700 16820 inf

56 24800 24920 inf

286 8550 8700 inf

302 11480 11590 inf

296 11700 11810 inf

326 10760 10870 inf

278 9400 9510 inf

20 38890 39030 inf

128 14470 14590 inf

320 12960 13070 inf

256 8010 8160 inf

314 13270 13380 inf

26 35970 36110 inf

152 18350 18480 inf

58 23750 23900 inf

368 14270 14380 inf

284 13540 13650 inf

308 14190 14300 inf

250 8550 8700 inf

356 14270 14380 inf

134 20060 20190 inf

91 22420 22530 inf

272 13970 14080 inf

290 16330 16440 inf

79 25820 25930 inf

254 16330 16440 inf

50 32950 33080 inf

52 29630 29790 inf

73 30370 30480 inf

14 145840 146020 inf

124 33310 33470 inf

85 30850 30960 inf

61 31160 31270 inf

249 3830 3980 inf

385 22420 22530 inf

67 34230 34340 inf

19 81040 81180 inf

157 31930 32060 inf

122 37430 37580 inf

379 22420 22530 inf

349 25820 25930 inf

145 34540 34660 inf

337 26400 26510 inf

361 21160 21270 inf

343 25820 25930 inf

55 58050 58170 inf

301 25840 25950 inf

373 28100 28210 inf

265 20270 20380 inf

331 30370 30480 inf

277 21140 21250 inf

259 23060 23170 inf

295 26960 27070 inf

139 38230 38350 inf

118 34590 34770 inf

25 91530 91670 inf

313 28450 28560 inf

325 24780 24890 inf

367 30850 30960 inf

151 38980 39110 inf

319 30370 30480 inf

307 30610 30720 inf

127 34590 34710 inf

283 31160 31270 inf

355 30850 30960 inf

13 259040 259220 inf

117 18480 18660 inf

289 34230 34340 inf

133 41740 41870 inf

271 29940 30050 inf

49 72050 72180 inf

253 34230 34340 inf

1 1357800 1358270 inf

10 163220 163440 inf

100 42710 43020 inf

101 54550 54770 inf

102 51490 51790 inf

103 31220 31440 inf

104 30630 30860 inf

105 27440 27640 inf

106 25930 26160 inf

107 31110 31290 inf

108 31210 31410 inf

109 28550 28760 inf

11 185960 186140 inf

110 28370 28560 inf

111 25370 25580 inf

112 24350 24570 inf

113 28100 28250 inf

114 27160 27330 inf

115 25280 25380 inf

116 25260 25390 inf

119 61870 62070 inf

12 186920 187110 inf

120 64070 64340 inf

121 70640 70790 inf

125 101400 101550 inf

126 91480 91710 inf

131 63330 63440 inf

132 62640 62810 inf

137 59620 59730 inf

138 49560 49740 inf

143 80880 81030 inf

144 73200 73380 inf

149 80930 81090 inf

150 73660 73830 inf

155 68680 68770 inf

156 69400 69590 inf

161 69050 69140 inf

162 78150 78320 inf

163 33630 33890 inf

164 34330 34560 inf

165 29690 29950 inf

166 28470 28770 inf

167 27880 28130 inf

168 25560 25840 inf

169 27800 28050 inf

17 317140 317350 inf

170 27810 28050 inf

171 24710 25010 inf

172 23860 24080 inf

173 26950 27200 inf

174 24920 25220 inf

175 18510 18650 inf

176 19140 19310 inf

177 17530 17680 inf

178 17440 17640 inf

179 20990 21160 inf

18 317470 317700 inf

180 22050 22240 inf

181 16810 17010 inf

182 16960 17100 inf

183 16150 16320 inf

184 15720 15930 inf

185 16780 16920 inf

186 16380 16550 inf

187 16220 16420 inf

188 16630 16820 inf

189 15530 15640 inf

190 15060 15260 inf

191 17170 17340 inf

192 16470 16640 inf

193 14150 14360 inf

194 14870 15090 inf

195 13740 13960 inf

196 13200 13390 inf

197 15020 15190 inf

198 14410 14580 inf

199 13020 13220 inf

2 1329820 1330340 inf

200 13220 13400 inf

201 12250 12350 inf

202 12540 12730 inf

203 13790 13960 inf

204 13710 13890 inf

205 12300 12540 inf

206 12490 12650 inf

207 11640 11760 inf

208 11780 12020 inf

209 12730 12860 inf

210 12610 12800 inf

211 11840 11960 inf

212 11710 11810 inf

213 11020 11200 inf

214 11040 11110 inf

215 10830 11000 inf

216 12470 12630 inf

217 10820 10890 inf

218 10820 10880 inf

219 10430 10620 inf

220 10350 10520 inf

221 10490 10650 inf

222 10270 10430 inf

223 10800 10920 inf

224 10710 10840 inf

225 10220 10310 inf

226 10180 10230 inf

227 10710 10860 inf

228 10860 11010 inf

229 10220 10320 inf

23 169880 170040 inf

230 10170 10260 inf

231 9840 9990 inf

232 9840 10040 inf

233 9800 9960 inf

234 9640 9870 inf

235 9690 9810 inf

236 9620 9730 inf

237 9230 9300 inf

238 9330 9530 inf

239 9430 9610 inf

24 184230 184420 inf

240 9590 9830 inf

241 9150 9270 inf

242 9080 9190 inf

243 8770 8960 inf

244 8720 8770 inf

245 9060 9220 inf

246 8960 9200 inf

247 8170 8270 inf

248 8050 8150 inf

251 45860 45990 inf

252 45590 45780 inf

257 48140 48260 inf

258 37390 37580 inf

263 47300 47440 inf

264 44250 44410 inf

269 36820 36950 inf

270 34910 35090 inf

275 49610 49700 inf

276 41140 41320 inf

281 36980 37100 inf

282 36020 36190 inf

287 50530 50650 inf

288 49270 49400 inf

29 127340 127470 inf

293 49230 49350 inf

294 43900 44070 inf

299 53470 53590 inf

3 1362030 1362410 inf

30 129600 129780 inf

300 48870 49030 inf

305 47390 47530 inf

306 47210 47390 inf

31 75960 76190 inf

311 51200 51330 inf

312 49020 49220 inf

317 47550 47700 inf

318 48640 48820 inf

32 79050 79340 inf

323 62720 62870 inf

324 54820 55020 inf

329 49430 49580 inf

33 77640 77930 inf

330 42560 42700 inf

335 64420 64530 inf

336 62250 62420 inf

34 75510 75760 inf

341 58780 58920 inf

342 54480 54630 inf

347 58190 58300 inf

348 58390 58500 inf

35 86420 86620 inf

353 60900 61030 inf

354 57910 58080 inf

359 57030 57160 inf

36 82100 82360 inf

360 55310 55490 inf

365 43400 43540 inf

366 46620 46760 inf

37 63560 63710 inf

371 56320 56440 inf

372 55160 55340 inf

377 49800 49940 inf

378 56110 56260 inf

38 65510 65740 inf

383 52110 52230 inf

384 55800 55950 inf

389 55430 55560 inf

39 60370 60640 inf

390 58980 59150 inf

4 1330950 1331510 inf

40 59420 59670 inf

41 79690 79860 inf

42 84160 84350 inf

43 68060 68210 inf

44 68590 68760 inf

45 63220 63430 inf

46 62280 62470 inf

47 73640 73820 inf

48 78160 78350 inf

5 2529600 2530050 inf

53 87680 87830 inf

54 89340 89590 inf

59 108820 109000 inf

6 2414320 2414770 inf

60 115740 115970 inf

65 79120 79230 inf

66 78750 78920 inf

7 178320 178450 inf

71 74960 75050 inf

72 74030 74200 inf

77 97390 97510 inf

78 107530 107690 inf

8 182150 182370 inf

83 78820 78970 inf

84 81480 81660 inf

89 79240 79330 inf

9 162910 163140 inf

90 76400 76570 inf

95 75030 75150 inf

96 81820 81960 inf

97 61960 62240 inf

98 53990 54230 inf

99 50920 51160 inf