Report

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1.1 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	1	'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.

1.2 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

1.4.1 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.

1.4.2 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.

1.4.3 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.

1.4.4 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.

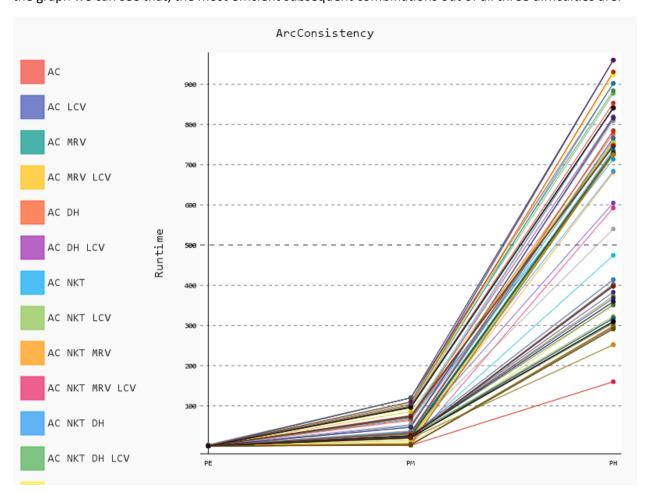
There are two reasons we favour runtime over space complexity, the first reason is that our test machine, which has 16GB of ram, so memory is large enough that space used do not necessarily affect the performance. The second reason is that runtime is a better indicator that shows fast the combination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

2 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:



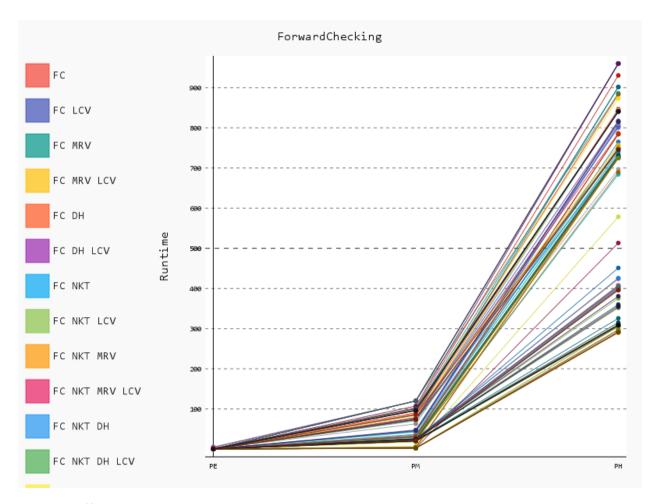
AC NKD NKT MRV LCV

AC NKT NKD MRV LCV

AC NKT NKD MRV

AC NKD NKT MRV

AC NKT NKD FC MRV LCV



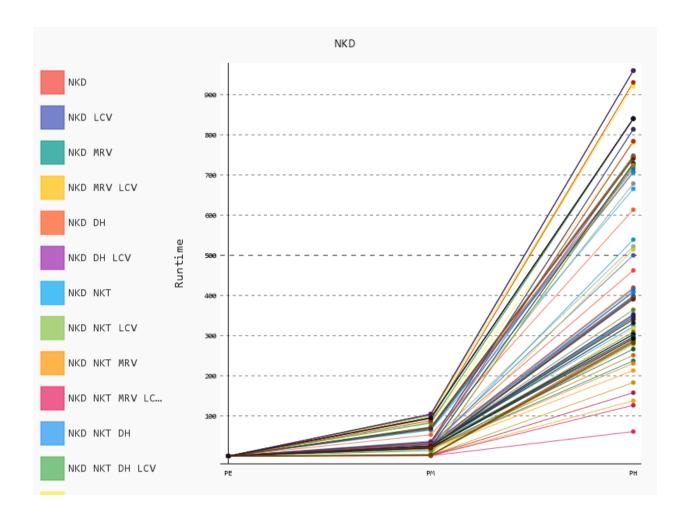
The most efficient combinations starting with FC are:

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:

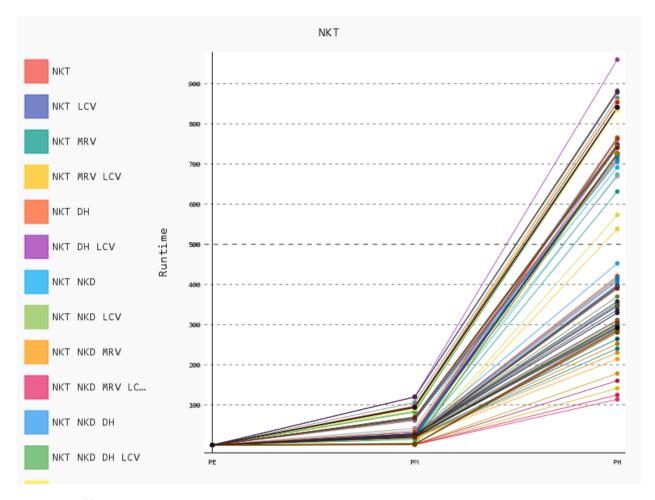
NKD NKT MRV LCV

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

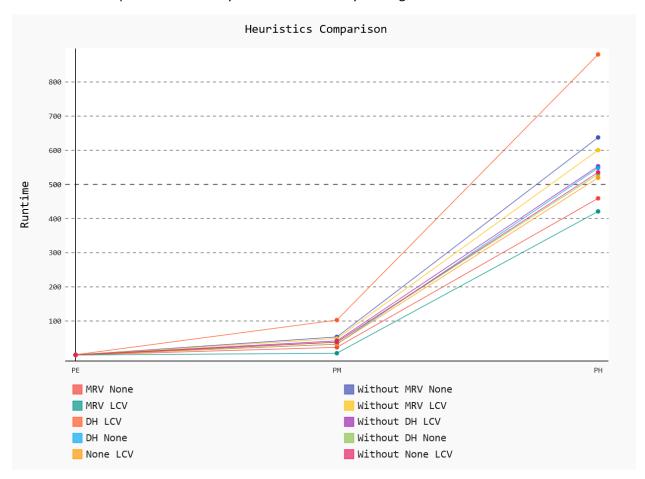
Looking at the above four different charts, we can see that by adding NKT and NKD to FC or AC, the runtime improves dramatically, on average increases by 214.3%. Both NKT and NKD boosts the performance significantly.

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.

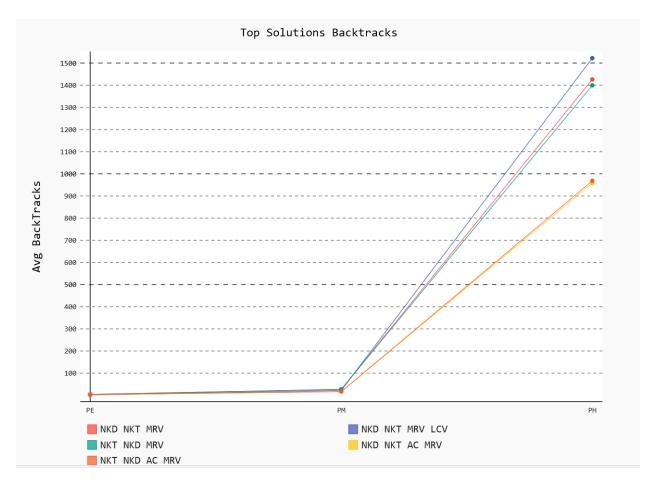
Now lets look at the solutions are able to solve all the puzzles in given time constraint



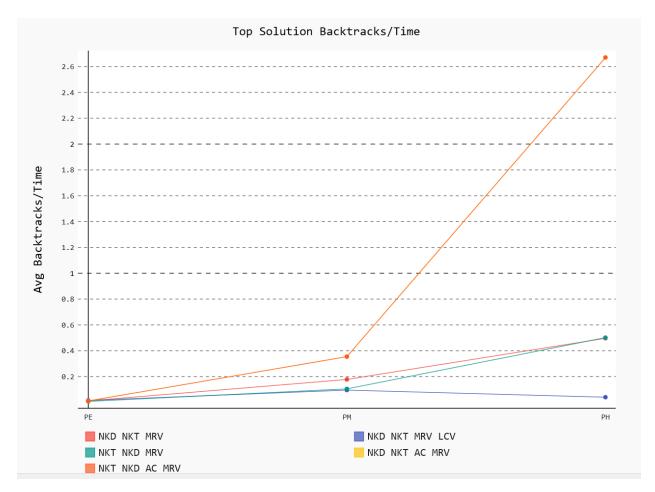
The above graph takes the average runtime of all the combinations that solve all the problems, so as to eliminate the variations. The best combination should be able to solve all problems in all cases in shortest amount of time, and in given space constraint.

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 4^{th} , and average time/backtrack at 2^{nd} .

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

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

PE2.txt

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				

PM4.txt

Success Rate=0.4692

Average Backtracks=1479

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

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- 114 27160 27330 inf
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- 121 70640 70790 inf
- 125 101400 101550 inf
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- 132 62640 62810 inf
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- 149 80930 81090 inf
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- 161 69050 69140 inf
- 162 78150 78320 inf
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- 164 34330 34560 inf
- 165 29690 29950 inf
- 166 28470 28770 inf
- 167 27880 28130 inf
- 168 25560 25840 inf
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- 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
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- 177 17530 17680 inf
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- 179 20990 21160 inf

- 18 317470 317700 inf
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- 181 16810 17010 inf
- 182 16960 17100 inf
- 183 16150 16320 inf
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- 187 16220 16420 inf
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- 192 16470 16640 inf
- 193 14150 14360 inf
- 194 14870 15090 inf
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- 202 12540 12730 inf
- 203 13790 13960 inf
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- 215 10830 11000 inf
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- 348 58390 58500 inf
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359 57030 57160 inf

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360 55310 55490 inf

365 43400 43540 inf

366 46620 46760 inf

37 63560 63710 inf

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372 55160 55340 inf

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389 55430 55560 inf

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- 60 115740 115970 inf
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- 66 78750 78920 inf
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- 71 74960 75050 inf
- 72 74030 74200 inf
- 77 97390 97510 inf
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- 83 78820 78970 inf
- 84 81480 81660 inf
- 89 79240 79330 inf
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- 90 76400 76570 inf
- 95 75030 75150 inf
- 96 81820 81960 inf
- 97 61960 62240 inf
- 98 53990 54230 inf
- 99 50920 51160 inf