

4. In simple backtracking, we try all possible values and backtrack if the assignment does not lead to a solution and then try another values.

No. of test cases - 10

Mean - 20.9 ms

Variance - 303.29 ms

5. IN MRV, we try out variables with least domain values. In forward checking, we first assign and then check that whether it leads to any other variable's domain to null and if it does , we backtrack.

Our algorithm takes more time than the simple backtracking since we are using data structures to store and update domain values again and again. But the critical point is that the number of backtracks are reduced with these heuristics.

No. of test cases - 10

Mean - 35 ms

Variance - 605.25 ms