

Analysis

Roll No: B21AI025

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Algorithm

I have used the Backtracking algorithm with Minimum Constrained values.

```
Func: Select_Unassigned_variable
```

The above function is used to return variables that have minimum number of TAs in the domain and minimum no of required TAs.

The order of each domain is sorted on the Priority of the degree for allocation and their preference for the course variable.

Hence, if k is the average domain search space and n is number of variables.

Complexity: k^n

Program Details

Execution time: 0.114 secs

Number of Valid assignments: 115

Number of Unassigned TAs: 86

Since 'DL-Ops' course has 15 students(<20), No TA is allotted to that course

Credits and References

Dataset - B21AI034, B21AI007

References - <https://github.com/aimacode/aima-python/blob/master/csp.ipynb>