CS5205: Advanced Artificial Intelligence Lab

Assignment - 3

24/01/2025

This assignment is in continuation with the previous assignment. In the inputs, vary the cost of food items and the group size, determine the best schedule for each of following scenarios

- Suppose you are given a daily menu. What is the earliest way to finish all assignments? You may need to report if it is infeasible.

- Suppose you need to finish all assignments within k days. What will be the minimum daily minimum food cost?

You need to do the following:

1. Develop good heuristics for the above.

2. Use those heuristics to implement DFBB, A* algorithms

3. Compare the number of nodes reached for DFS, DFBB, A* algorithms for each of the case for each objective.

You may download all testcases (valid/invalid) from the website. Use the following command to extract the archive:

```
$> tar -xvzf All_Testcases.tgz
```