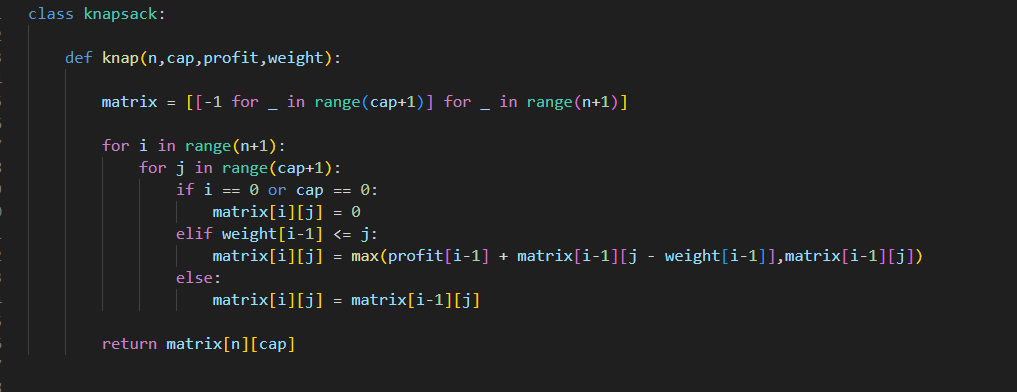
DAA Lab Assignment Week 8

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CSE-3

**Logic snippet:**



Class knapsack has a method called knap which takes in number of jobs, max capacity of the bag, List of profits and list weights as arguments.

The method generates a matrix of dimensions (capacity+1)\*(count+1) full of -1.

Then we traverse the entire matrix and check certain conditions which help us find the ideal jobs to take so that we don’t fill up our hypothetical basket.

The question asks us to take a dynamic programming approach rather than a recursive approach.

The time and space complexity of the approach is O(count\*capacity).

**Result snippets**

