Name : Mustafa Senih Topsakal

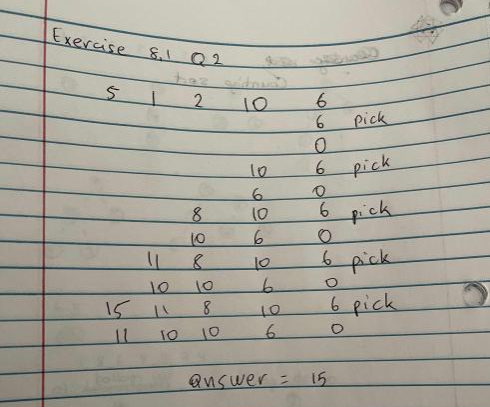
Date : 11/21/2021

Do :

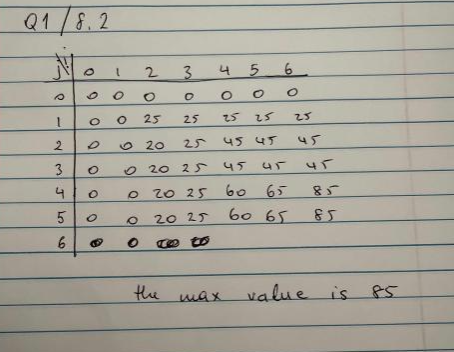
1. Exercises 8.1 (Q1)

The similarity that they share is that both divide-and-conquer and dynamic programming divide the main problem into sub-problems for the best answer, but they differ in the way of finding the answer. Divide-and-conquer combines the answers from the sub-problems and finds the best possible answer. On the other hand Dynamic uses those answers from the sub-problems to find the other problems answers.

1. Exercises 8.1 (Q2)



1. Exercises 8.2 (Q1)



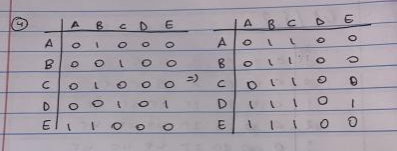
B- There is only one possible subset

C- The knapsack algorithm shows the subset of the possible ones.

1. Apply of Warshall’s algorithm to the digraph shown

Diagram

Description automatically generated



1. Apply Floyd’s algorithm to the digraph shown

Diagram

Description automatically generated

