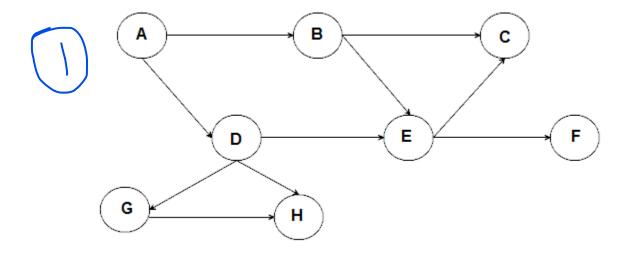
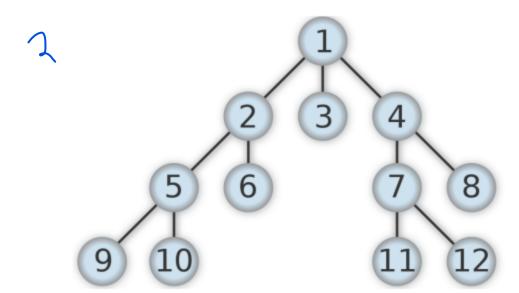
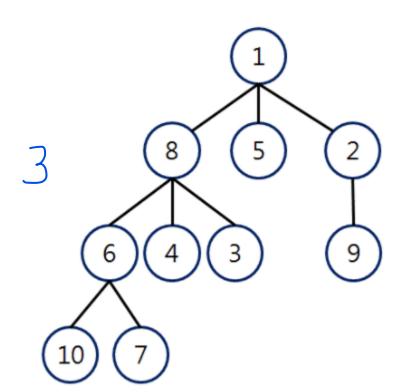
0/1 Knapsack Problem:

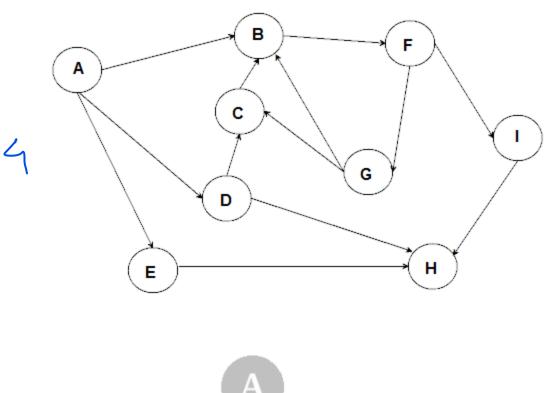
For the given set of items and knapsack capacity = 10 kg, find the optimal solution for the 0/1 knapsack problem making use of dynamic programming approach.

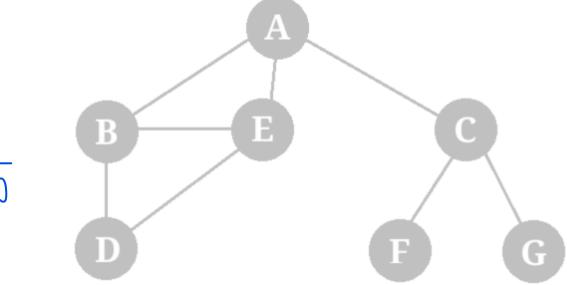
BFS & DFS:

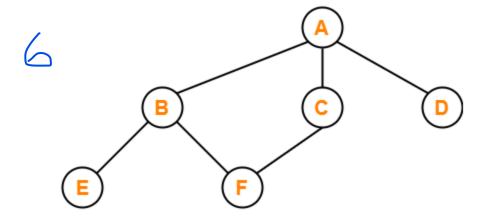








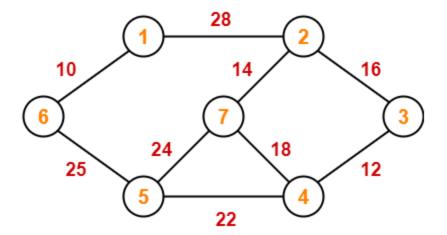




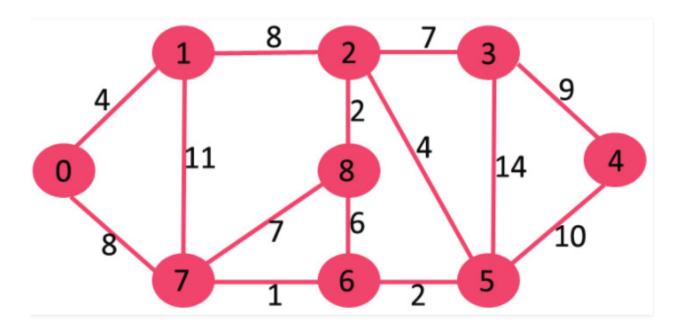
LCS:

- 1. ABCDGH
 - **AEDFHR**
- 2. abbcdgf bbadcgf
- 3. ABCDEFGH ABDFGHI

Prims/Kruskal's:



<u>Dijkstra:</u>



0/1 Knapsack(Greedy):

Find the optimal solution for the fractional knapsack problem making use of greedy approach. Consider:

```
n = 4
m = 6 kg
(w1, w2, w3, w4) = (3,2,10,2)
(p1, p2, p3, p4) = (15,20,30,14)
```