

# 0/1 Knapsack Problem Using Backtracking

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W=8Kg



# Backtracking approach

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**Backtracking** can be defined as a general algorithmic technique that considers searching every possible combination in order to solve a computational problem.

**Backtracking** uses **DFS**

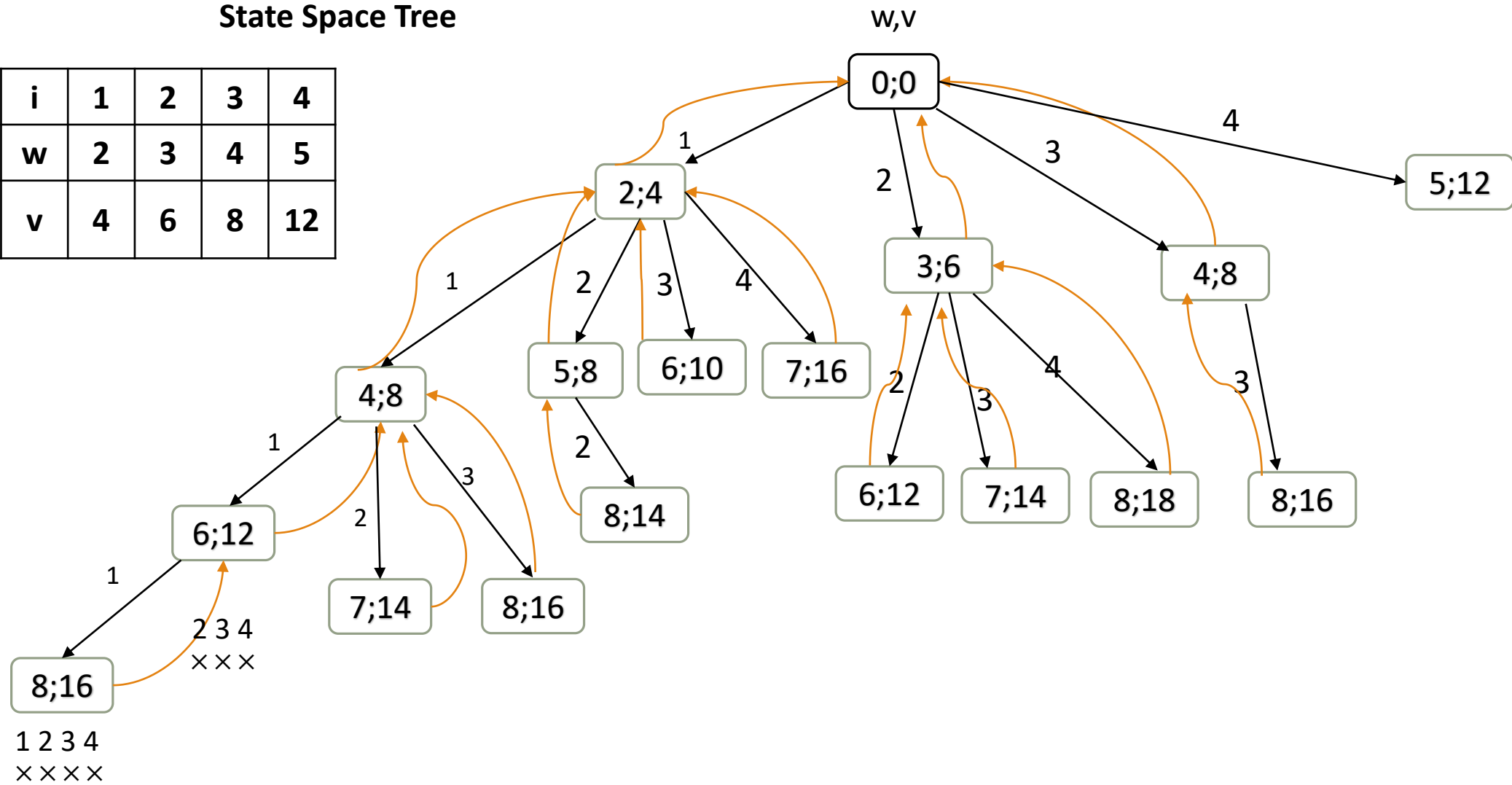
**Question:**

i	1	2	3	4
w	2	3	4	5
v	4	6	8	12

**W=8 kg**

# State Space Tree

i	1	2	3	4
w	2	3	4	5
v	4	6	8	12



Ans: {0,1,0,1}