

0/1 Knapsack Problem

Dynamic Programming Solution Explained
Optimizing Value with Limited Capacity

```
for i in range(1, n+1):  
    for w in range(1, capacity+1):  
        if weights[i-1] <= w:  
            dp[i][w] = max(values[i-1] + dp[i-1][w-weights[i-1]],  
                           dp[i-1][w])  
        else:  
            dp[i][w] = dp[i-1][w]
```

Knapsack (Capacity = 7)



Item 1

W=2, V=1

Item 2

W=2, V=4

Item 3

W=3, V=6

Item 4

W=3, V=7

Example Solving Knapsack Problem With Dynamic Programming

Huangqi Zhang



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