# 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-weig

        else:

            dp[i][w] = dp[i-1][w]
```

**Knapsack (Capacity = 7)**

Max Value = 9

**Item 1**

**Item 2**
W=3, V=4

**Item 3**
W=4, V=5

**Item 4**
W=5, V=7

# Example Solving Knapsack Problem With Dynamic Programming

**Richard E. Neapolitan,Kumarss Naimipour**

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