

# 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=5

Item 4  
W=3, V=7

# Example Solving Knapsack Problem With Dynamic Programming

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## **Example Solving Knapsack Problem With Dynamic Programming:**

## Whispering the Techniques of Language: An Mental Quest through **Example Solving Knapsack Problem With Dynamic Programming**

In a digitally-driven earth where screens reign great and instant interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within words usually get unheard. However, situated within the pages of **Example Solving Knapsack Problem With Dynamic Programming** a charming literary prize pulsing with organic thoughts, lies a fantastic journey waiting to be undertaken. Composed by a talented wordsmith, this marvelous opus encourages readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very cloth of each word. Within the mental depths of this moving evaluation, we can embark upon a heartfelt exploration of the book is key themes, dissect their fascinating writing type, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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