

# 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

**G Thomas**



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**Foundations of Algorithms Using Java Pseudocode** Richard E. Neapolitan, Kumarss Naimipour, 2004 Intro Computer Science CS0 *Data Structures and Algorithm Analysis in C++, Third Edition* Clifford A. Shaffer, 2012-07-26 Comprehensive treatment focuses on creation of efficient data structures and algorithms and selection or design of data structure best suited to specific problems This edition uses C as the programming language

**Foundations of Algorithms** Richard E. Neapolitan, Kumarss Naimipour, 2011 Data Structures Theory of Computation *DNA Based Computers II* DIMACS (Group), 1999 The fledgling field of DNA computers began in 1994 when Leonard Adleman surprised the scientific community by using DNA molecules protein enzymes and chemicals to solve an instance of a hard computational problem This volume presents results from the second annual meeting on DNA computers held at Princeton only one and one half years after Adleman s discovery By drawing on the analogy between DNA computing and cutting edge fields of biology such as directed evolution this volume highlights some of the exciting progress in the field and builds a strong foundation for the theory of molecular computation

Introduction to Probability Models Wayne L. Winston, 2004 Vol 2 CD ROM contains student editions of ProcessModel LINGO Premium Solver DecisionTools Suite including RISK AND RISKOptimizer Data files

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