

**Program 6** Design and implement C/C++ Program to solve 0/1 Knapsack problem using Dynamic Programming method.

```
#include <stdio.h>
#define MAX 50
int p[MAX], w[MAX], x[MAX];
double maxprofit;
int n, m, i, j, temp2, currentWeight;

void Knapsack(int n, int w[], int p[], int m)
{
    double ratio[MAX];

    // Calculate the ratio of profit to weight for each item
    for (i = 0; i < n; i++)
    {
        ratio[i] = (double)p[i] / w[i];
    }

    // Sort items based on the ratio in non-increasing order
    for (i = 0; i < n - 1; i++)
    {
        for (j = i + 1; j < n; j++)
        {
            if (ratio[i] < ratio[j])
            {
                double temp = ratio[i];
                ratio[i] = ratio[j];
                ratio[j] = temp;

                temp2 = w[i];
                w[i] = w[j];
                w[j] = temp2;

                temp2 = p[i];
                p[i] = p[j];
                p[j] = temp2;
            }
        }
    }

    currentWeight = 0;
    maxprofit = 0.0;

    // Fill the knapsack with items
```

# Solution Manual Algorithm Design And Analysis

**Steven S. Skiena**



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