Knapsack problem

```
#include <stdio.h>
int max(int a, int b) {
  return (a > b) ? a : b;
}
int main() {
  int weight[10], profit[10], n, capacity, i, w;
  int dp[10][50];
  printf("Enter number of items: ");
  scanf("%d", &n);
  printf("Enter weights of items:\n");
  for (i = 0; i < n; i++) {
    scanf("%d", &weight[i]);
  }
  printf("Enter profits of items:\n");
  for (i = 0; i < n; i++) {
    scanf("%d", &profit[i]);
  }
  printf("Enter capacity of knapsack: ");
  scanf("%d", &capacity);
  for (i = 0; i \le n; i++) {
    for (w = 0; w \le capacity; w++) {
```

```
Output

Enter number of items: 2
Enter weights of items:
89
98
Enter profits of items:
5
6
Enter capacity of knapsack: 3
Maximum profit = 0
=== Code Execution Successful ===
```