### Cashier problem ++

Given a set of coin values coins  $\{c_1, c_2, ..., c_k\}$  and a target sum of money m. But how many ways can we form the sum m using these coins? Coins:  $\{1,4,5\}$  and target sum: 5

#### **Input:**

The first line is the number of coin values, K.  $1 \le K \le 10$ The second line consists of a set of coin values, coins  $\{c_1, c_2, ..., c_k\}$ .  $1 \le c_i \le 500$ The last line contains the target sum of money, m.  $1 \le m \le 10^5$ 

### **Output:**

Result

## **Example:**

### Input

3

1 4 5

5

# **Output**

4

### **Explanation:**

There are 4 ways in total:

1+1+1+1+1

1+4

4+1

5

\**Note:* 4+1 != 1+4