

### **FEPE-PB**

# Subset Sum Time limit: 2 seconds

Given a set s of integers, your task is to determine how many different non-empty subsets sum up to a target value.

#### Input Format

The input consists of several test cases. The first line of each test case is a line containing two integers N and T, the number of items of the original set of integers and the target value. After that comes one line with the N integers  $s_i$  that belong to the original set s.

#### Output Format

For each test case print on a single line an integer indicating the number of different non-empty subsets that sum up to the target value T.

#### **Explication:**

On the first test case the target is 0 and the following are the valid subsets: (2, 4, -1, -5), (2, 6, -5, -3), (4, -1, -3), (6, -5, -1).

On the second test case the target is again 0, the only valid subset is: (-3, -2, 5).

#### Technical Specification

- $1 \le N \le 40$
- $-10^9 \le T, s_i \le 10^9$

#### Sample Input

6 0 -1 2 -3 4 -5 6 5 0 -7 -3 -2 5 8

#### Sample Output

4



## This page is left blank intentionally