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## Equal sums (1)

P40685\_en

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Write a program that, given an integer number  $s$  and  $n$  integer numbers  $x_1, \dots, x_n$ , prints all the subsets (maybe with repeated numbers, but using every  $x_i$  at most once) whose sum is exactly  $s$ .

### Input

Input consists of an integer number  $s$ , followed by a number  $n > 0$ , followed by  $x_1, \dots, x_n$ .

### Output

Print all the subsets whose sum is  $s$  that can be made up with  $x_1, \dots, x_n$ .

### Information about the checker

You can print in any order both the solutions and the elements inside each solution.

### Hint

For this exercise, simple backtracking solutions are accepted. No optimizations are required.

#### Sample input 1

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

#### Sample output 1

```
{5, 1}
{0, 5, 1}
{-2, 3, 5}
{-2, 0, 3, 5}
{1, 5}
{1, 3, -4, 5, 1}
{1, 0, 5}
{1, 0, 3, -4, 5, 1}
```

#### Sample input 2

```
0
2
-5 5
```

#### Sample output 2

```
{ }
{-5, 5}
```

### Problem information

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