

---

**Equal sums (1)****P40685\_en**

---

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**

Author: Salvador Roura

Translator: Carlos Molina

Generation: 2026-01-25T11:03:18.859Z

© Jutge.org, 2006–2026.

<https://jutge.org>