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The Virtual Learning Environment for Computer Programming

## Equal sums (3)

P11655_en
Write a program that, given a natural number $s$ and $n$ natural numbers $x_{1}, \ldots, x_{n}$, 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 a natural number $s$, followed by a number $n>0$, followed by $x_{1}, \ldots, x_{n}$.

## Output

Print all the subsets whose sum is $s$ that can be made up with $x_{1}, \ldots, x_{n}$.

## Information about the checker

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

## Hint

For this exercise, a very simple algorithm can be too slow.

## Sample input 1

6
7
$\begin{array}{lllllll}1 & 6 & 0 & 1 & 3 & 0 & 2\end{array}$

## Sample input 2

```
10
10
1
```


## Problem information

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