
Equal sums (2)

P82660_en

Write a program that, given an integer number s and n integer numbers x_1, \dots, x_n , prints the subset (maybe with repeated numbers, but using every x_i at most once) lexicographically largest among those whose sum is s .

Input

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

Output

Print, with the elements sorted non-increasingly, the subset that is greatest in lexicographical order among those that can be made up with x_1, \dots, x_n and whose sum is s . If there is none, print "no solution".

Hint

Sort the given numbers.

Sample input 1

```
6
7
1 6 0 1 3 2 0
```

Sample output 1

```
{6, 0, 0}
```

Sample input 2

```
-5
3
6 -10 4
```

Sample output 2

```
no solution
```

Sample input 3

```
-5
9
3 1 -1 -1 0 -3 0 -2 2
```

Sample output 3

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

Sample input 4

```
-9
3
-5 6 -4
```

Sample output 4

```
{-4, -5}
```

Problem information

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