

---

**The one of the coins****P87919\_en**

---

Perhaps you have read that some problems are so classic that they barely need a statement. For this one, given a collection of  $n$  coins with different values and a target amount  $A$ , we ask you to indicate the way to add up to  $A$  by using coins of the largest possible values. In particular, a way is better than another one if the former uses more coins of the largest value; in the event of a tie, if it uses more coins of the second largest value, etc.

**Input**

Input consists of several cases. Each case begins with the number of coins  $n$  between 1 and 100, followed by  $n$  different integer numbers  $v_1, \dots, v_n$ , where  $1 \leq v_i \leq 10000$ . Finally, we have an integer number  $1 \leq A \leq 100000$ .

**Output**

For every case, print in non-increasing order the necessary coins to get  $A$ , choosing the combination with coins of largest value in case of a tie. If there is no solution, print  $-1$ .

**Sample input 1**

```
8
1 2 5 10 25 50 100 200
481

3
1 4 5
5

6
428 19 521 67 84 101
75

6
428 19 521 67 84 101
749
```

**Sample output 1**

```
200, 200, 50, 25, 5, 1
5
-1
521, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19
```

**Problem information**

Author: Omer Giménez

Translator: Carlos Molina

Generation: 2026-01-25T12:13:48.993Z

© Jutge.org, 2006–2026.

<https://jutge.org>