

Fun with Sequences (Act 6)

You are given a sequence of n integers $S = s_1, s_2, \dots, s_n$ and a sequence of m integers $Q = q_1, q_2, \dots, q_m$. If $q_1 + q_2 + \dots + q_m < s_1 + s_2 + \dots + s_n$ please print the sequence S and otherwise please print the sequence Q .

Input data specification

In the first line you are given one integer $2 \leq n \leq 100$, and in the following line n integers:
 $-100 \leq s_i \leq 100$.

In the third line you are given one integer $2 \leq m \leq 100$, and in the following line m integers:
 $-100 \leq q_i \leq 100$.

Output data specification

The sequence of requested integers separated by spaces.

Example 1

Input:

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

Output:

```
-2 -1 0 1 4
```

Example 2

Input:

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

Output:

```
-3 -2 -1 1 2 3
```