
The most frequent element**P66257_en**

Given two sequences of numbers, each sorted nondecreasingly, compute which number occurs more times in total in both sequences, and how many times it occurs.

Input

Input consists of several cases, each one with two sequences sorted in nondecreasing order. Every sequence starts with its number of items n , followed by the n elements, all between 0 and 10^9 . Suppose that every n is between 0 and 10^5 , and that at least one of the two sequences is not empty.

Output

For every case, print which number occurs more times (the largest in the event of a tie), and how many times it occurs.

Sample input 1

```
3 0 4 6
4 2 3 4 5

4 10 20 30 40
3 10 10 30

6 10 10 12 20 20 20
8 6 6 6 10 12 12 25 25

0
1 1000000000

4 42 800000000 800000000 1000000000
0
```

Sample output 1

```
4 2
10 3
20 3
1000000000 1
800000000 2
```

Problem information

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Generation: 2026-01-25T11:28:10.541Z

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