
Positions of a maximum in two sequences

X58169_en

Given two sequences of non negative integers s_1 and s_2 both ending in 0, write a program that computes the maximum m of the elements in s_1 and that shows the position of its latest occurrence within s_1 and the position of its first occurrence within s_2 .

In your program, you must implement and use the following procedure:

```
void infoSequence(int& max, int& lpos);
```

which reads a sequence ending in 0 and computes the parameters max and $lpos$. At the end of the execution of the procedure, the parameter max must hold the largest value in the sequence and the parameter $lpos$ has to hold the position of the latest occurrence of the maximum value.

Input

The input is formed by two sequences s_1 and s_2 of non negative integers, both ending in 0. The sequence s_1 is not empty (i.e., it has at least one element different from the ending mark), but the sequence s_2 can be empty.

Output

The output is formed by three items: The maximum element in s_1 , m , the position of the latest occurrence of m in s_1 , and the position of the first occurrence of m in s_2 . The case in which m does not form part of s_2 , or when s_2 is an empty sequence (and, therefore m does not form part of s_2) must be conveniently indicated.

Please, follow the specified format.

Sample input 1

```
1 2 3 4 5 6 7 8 9 0
9 8 7 6 5 4 3 2 1 0
```

Sample output 1

```
9 9 1
```

Sample input 2

```
1 2 3 3 3 2 1 0
3 2 1 0
```

Sample output 2

```
3 5 1
```

Sample input 3

```
1 2 4 8 16 32 16 8 4 2 1 0
1 3 9 27 0
```

Sample output 3

```
32 6 -
```

Sample input 4

```
1 2 4 8 16 32 16 8 4 2 1 0
0
```

Sample output 4

```
32 6 -
```

Problem information

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