Positions of a maximun in two sequences   X58169_en
Control 2, GRAU-PRO1, FIB (2014-04-24)

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 ocurrence 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