

Index of the largest number in an array

An array A of N integer elements is given. It is required to find and display the number of the largest element in the array, output the original array.

Input

From the standard input device the number N ($1 \leq N \leq 1000$) is entered in the first line - the quantity of elements of array A . The second line contain N numbers elements of the array A ($-1000 \leq A_i \leq 1000$).

Output

Print in the first line the index of the largest element in the array A , if there are several largest elements of the array, then you need to output the least of all indexes of the largest element.

In the second line, print the original array A , *printing a space after each element*.

Sample Input

```
9
5 4 -6 0 -3 -2 5 0 3
```

Sample Output

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