

First occurrence

Given a sequence of n positive integers, output the numbers in the given order provided that the values occur more than once, then output only the first occurrence of it.

Input

The first line is an integer n ($n \leq 10^4$).

The second line is n positive integers representing the values in the given sequence.

Output

A single line contains the the first occurrence of each value.

Example

Input:

```
5  
1 2 3 3 2
```

Output:

```
1 2 3
```