Find the first and the last occurrences of a given number in an array

Cost: 8 | Solved: 125

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given a sorted array of n integer elements.

You have to find the first and the last occurrences of a given number k in an array.

Input:

The first line contains a natural n ($1 \le n \le 10^5$) – the quantity of elements of the array.

The second line contains n numbers – the elements of the array.

The third line contains a natural m ($1 \le m \le 10^5$) – the quantity of number queries.

The next m lines contain a number k (the values of k on different lines can be the same).

Output:

For every query you have to write two numbers – the indices of its first and last occurrences or write «Not found» if such element doesn't exist.

The output for each query should be written on a new line.

Example:

Input	Output

5	
7 7 9 9 9	1 2
5	3 5
7	Not found
9	Not found
4	3 5
1	
9	