

First and last occurrences of X

Given a sorted array with possibly duplicate elements, the task is to find indexes of first and last occurrences of an element x in the given array.

Note: If the number x is not found in the array just print '-1'.

Input:

The first line consists of an integer T i.e number of test cases. The first line of each test case contains two integers n and x . The second line contains n spaced integers.

Output:

Print index of the first and last occurrences of the number x with a space in between.

Constraints:

$1 \leq T \leq 100$

$1 \leq n, a[i] \leq 1000$

Example:

Input:

2

9 5

1 3 5 5 5 5 6 7 123 125

9 7

1 3 5 5 5 5 7 123 125

Output:

2 5

6 6