Ceil The Floor

Given an unsorted array arr[] and an element x, find floor and ceiling of x in arr[0..n-1].

Floor of x is the largest element which is smaller than or equal to x. Floor of x doesn't exist if x is smaller than smallest element of arr[].

Ceil of x is the smallest element which is greater than or equal to x. Ceil of x doesn't exist if x is greater than greates element of arr[].

Examples:

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Input : arr[] = {5, 6, 8, 9, 6, 5, 5, 6}
        x = 7
Output : Floor = 6
         Ceiling = 8

Input : arr[] = {5, 6, 8, 9, 6, 5, 5, 6}
        x = 10
Output : Floor = 9
         Ceil doesn't exist.

Input : arr[] = {5, 6, 8, 9, 6, 5, 5, 6}
        x = 2
Output : Floor doesn't exist
         Ceil = 5
```

Example :
Input :
The first line of input contains an integer T denoting the Test cases. Then T test cases follow.
First line contains no. of array elements - N and value of x
Second line contains array elements A[i]

Output :
Floor and Ceil Value of x

Constraints :
$1 \leq T \leq 100$

$1 \leq N, x \leq 10^5$
$0 \leq A[i] \leq 10^6$

Input :
2
8 2
5 6 9 8 6 5 5 6
11 264
147 154 383 223 345 30 376 111 33 186 72

Output :
Floor doesn't exist
5
223
345