First and last occurrences of x

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Basic Accuracy: **53.04%** Submissions: **43233** Points: **1**

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

Example 1:

Input:
n=9, x=5
arr[] = { 1, 3, 5, 5, 5, 5, 67, 123, 125 }
Output: 2 5
Explanation: First occurrence of 5 is at index 2 and last
        occurrence of 5 is at index 5.

Example 2:

Input:
n=9, x=7
arr[] = { 1, 3, 5, 5, 5, 5, 7, 123, 125 }
Output: 6 6
Your Task:

Since, this is a function problem. You don't need to take any input, as it is already accomplished by the driver code. You just need to complete the function **find**() that takes **array arr, integer n and integer x** as parameters and returns the required answer.

Note: If the number **x** is not found in the array just return both index as -1.

Expected Time Complexity: O(logN)

Expected Auxiliary Space: O(1).

Constraints:

$1 \le N \le 10^7$

From <https://practice.geeksforgeeks.org/problems/first-and-last-occurrences-of-x3116/1#>

Solution

```
int a1=-1;
int a2=-1;
for(int i=0;i<n;i++){
    if(arr[i]==x){
        a1=i;
        break;
    }
}
for(int i=n-1;i>=0;i--){
    if(arr[i]==x){
        a2=i;
        break;
    }
}
return {a1,a2};
```