Number of occurrence

Moderate 80/80 Average time to solve is 26m

Contributed by **Arshit** 172 upvotes **Asked in companies**

Problem statement

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You have been given a sorted array/list of integers ***'arr'*** of size ***'n'*** and an integer ***'x'***.

Find the total number of occurrences of 'x' in the array/list.

Example:

```
Input: 'n' = 7, 'x' = 3
'arr' = [1, 1, 1, 2, 2, 3, 3]

Output: 2

Explanation: Total occurrences of '3' in the array 'arr' is 2.
```

Detailed explanation (Input/output format, Notes, Images)

Sample Input 1:

```
7 3
1 1 1 2 2 3 3
```

Sample Output 1:

```
2
```

Explanation For Sample Input 1:

In the given list, there are 2 occurrences of integer 3.

Sample Input 2:

```
5 6
1 2 4 4 5
```

Sample Output 2:

```
0
```

Explanation For Sample Input 2:

In the given list, there are 0 occurrences of integer 6.

Expected time complexity:

The expected time complexity is O(log 'n').

Constraints:

1 <= n <= 10^4
1 <= arr[i] <= 10^9
1 <= x <= 10^9
Where arr[i] represents the element i-th element in the array/list.

Time Limit: 1sec