Check For Majority element in a sorted array

```c
#include <stdio.h>
#include <stdlib.h>

int isMajority(int *arr, int size, int X)
{
        //get last index according to even or odd
        int lastIndex = size % 2 ? (size / 2 +1) : (size / 2);

        for(int index = 0; index < lastIndex; index++)
                if(arr[index] == X && arr[index+size/2] == X)
                        return 1;
        return 0;
}


int main()
{
        int *arr, size, X;
        printf("Enter size of an array\n");
        scanf("%d", &size);
        //allocate memory for array
        arr = (int *)malloc(size * sizeof(int));

        printf("Enter Array elements in sorted order");
        for(int index = 0; index < size; index++)
                scanf("%d", &arr[index]);

        printf("Enter element to check\n");
        scanf("%d", &X);
        if(isMajority(arr, size, X))
                printf("The %d appears more than n/2 times\n", X);
        else
                printf("The %d is not appears more than n/2 times \n", X);
        return 0;
}
```

Time Complexity: O(logn)
Space Complexity: O(1)