```c
#include <stdio.h>

int main() {
    int n, x;
    int count = 0;

    printf("Enter the size of the array: ");
    scanf("%d", &n);

    int arr[n];

    printf("Enter the elements of the sorted array: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("Enter the value of X: ");
    scanf("%d", &x);

    for (int i = 0; i < n; i++) {
        if (arr[i] == x) {
            count++;
        }
    }
```

```c
    printf("Output: %d\n", count);


    return 0;

}
```