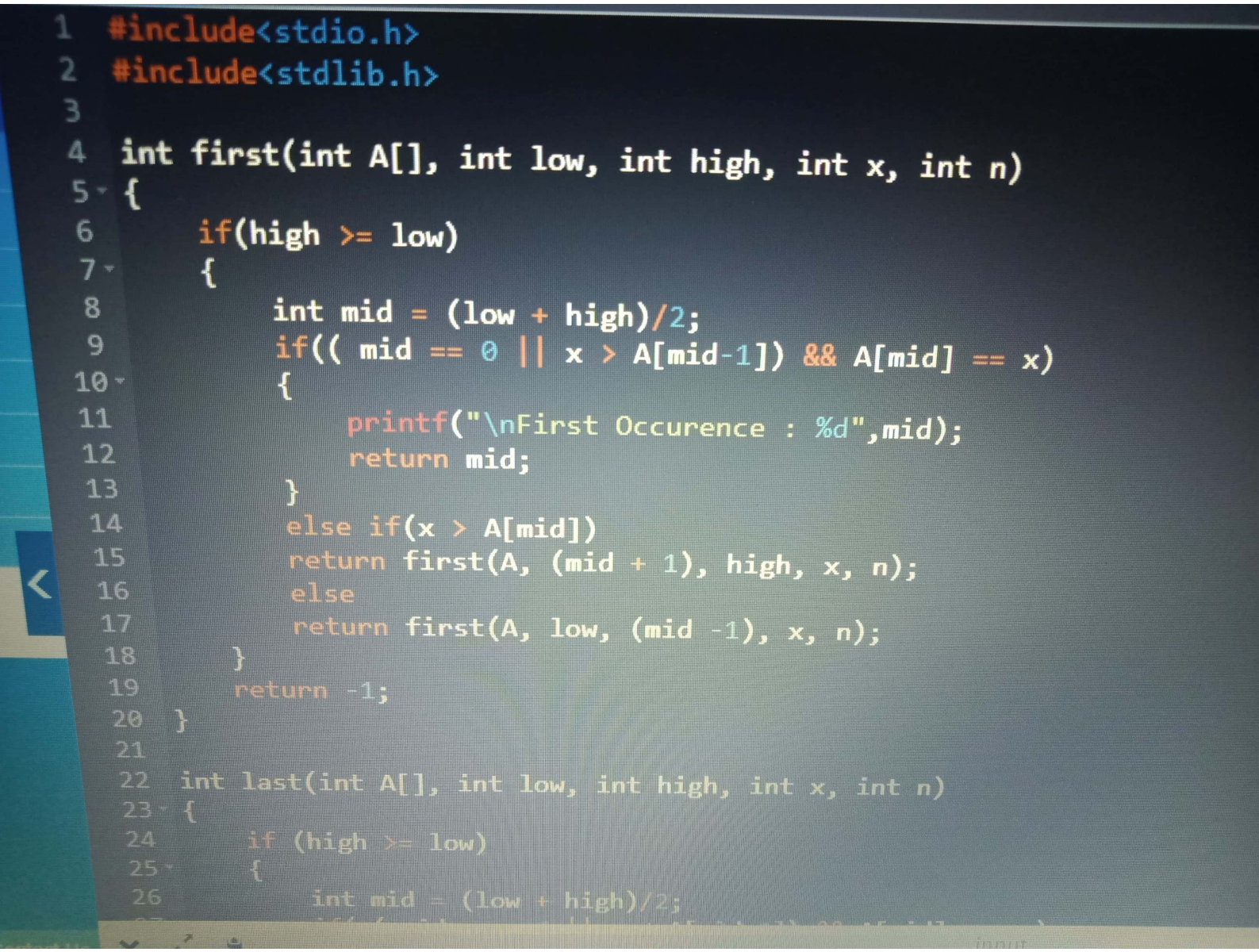
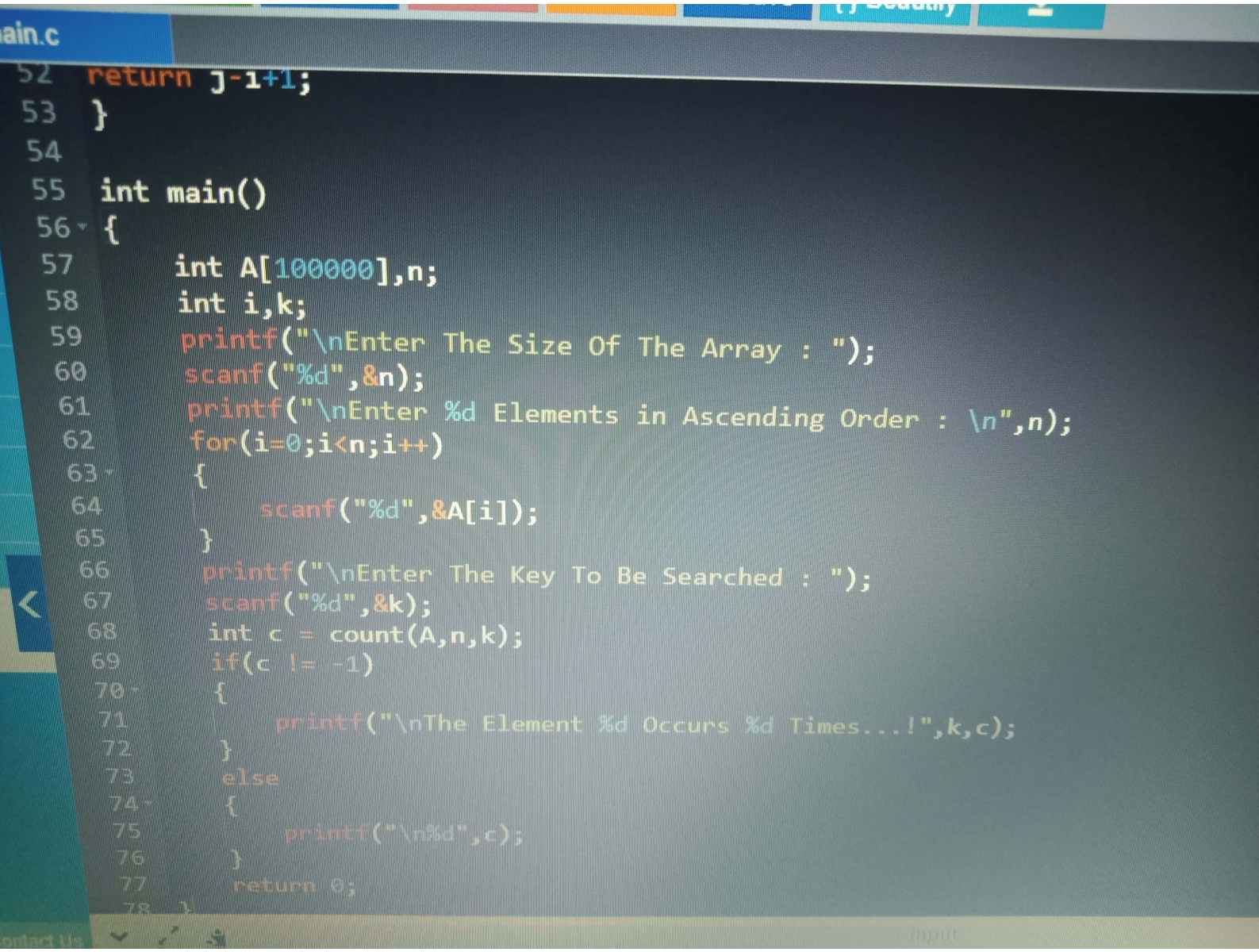


```c
#include<stdio.h>
#include<stdlib.h>

int first(int A[], int low, int high, int x, int n)
{
    if(high >= low)
    {
        int mid = (low + high)/2;
        if(( mid == 0 || x > A[mid-1]) && A[mid] == x)
        {
            printf("\nFirst Occurence : %d",mid);
            return mid;
        }
        else if(x > A[mid])
        return first(A, (mid + 1), high, x, n);
        else
        return first(A, low, (mid -1), x, n);
    }
    return -1;
}

int last(int A[], int low, int high, int x, int n)
{
    if (high >= low)
    {
        int mid = (low + high)/2;
```

```
    if (high >= low)
    {
        int mid = (low + high)/2;
        if( ( mid == n-1 || x < A[mid+1]) && A[mid] == x )
        {
            printf("\nLast Occurence : %d",mid);
            return mid;
        }
        else if(x < A[mid])
        return last(A, low, (mid -1), x, n);
        else
        return last(A, (mid + 1), high, x, n);
    }
    return -1;
}


int count(int A[], int n, int x)
{
    int i;
    int j;

    i = first(A, 0, n-1, x, n);

    if(i == -1)
        return i;
```



```
int main()

Enter The Size Of The Array : 5

Enter 5 Elements in Ascending Order :
1 2 2 3 6

Enter The Key To Be Searched : 2

First Occurence : 1
Last Occurence : 2
The Element 2 Occurs 2 Times...!

...Program finished with exit code 0
Press ENTER to exit console.
```