Binary search

**#include <stdio.h>**

**Int main()**

**{**

**Int c, first, last, middle, n, search, array[100];**

**Printf(“Enter number of elements\n”);**

**Scanf(“%d”, &n);**

**Printf(“Enter %d integers\n”, n);**

**For (c = 0; c < n; c++)**

**Scanf(“%d”, &array[c]);**

**Printf(“Enter value to find\n”);**

**Scanf(“%d”, &search);**

**First = 0;**

**Last = n – 1;**

**Middle = (first+last)/2;**

**While (first <= last) {**

**If (array[middle] < search)**

**First = middle + 1;**

**Else if (array[middle] == search) {**

**Printf(“%d found at location %d.\n”, search, middle+1);**

**Break;**

**}**

**Else**

**Last = middle – 1;**

**Middle = (first + last)/2;**

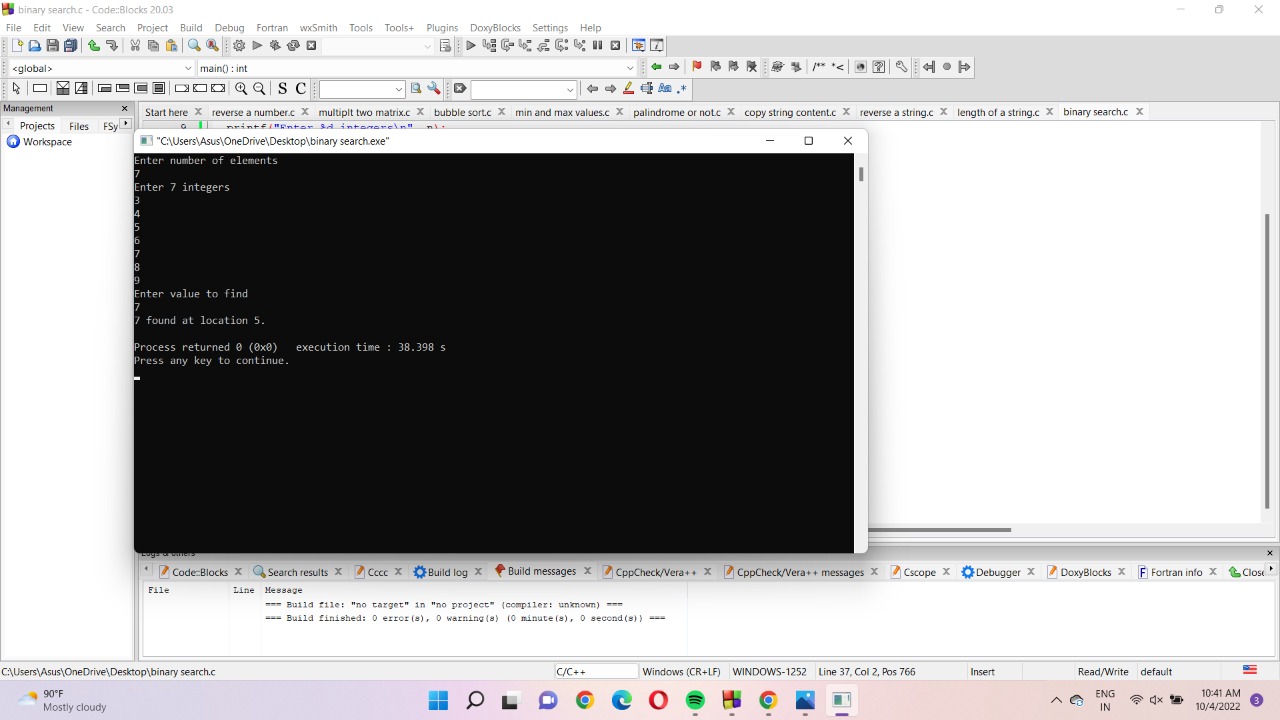
**}**

**If (first > last)**

**Printf(“Not found! %d isn’t present in the list.\n”, search);**

**Return 0;**

**}**

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