

```

C abcd> main()
1 //Q1B2: Write a Program to take a sorted array arr[] and an integer x as input, Find the index (0-based)
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 arr = [1, 2, 8, 10, 11, 12, 19], x = 5
7 Output 1:
8 2
9
10 Input 2:
11 arr = [1, 2, 8, 10, 11, 12, 19], x = 20
12 Output 2:
13 -1
14
15 Input 3:
16 arr = [1, 1, 2, 8, 10, 11, 12, 19], x = 9
17 Output 3:
18 8
19
20 Input 4:
21 arr = [1, 1, 2, 8, 10, 11, 12, 19], x = 2
22 Output 4:
23 2
24
25 */
26 #include <stdio.h>
27
28 int main() {
29     int n, x, i;
30     scanf("%d", &n);
31
32     int arr[100];
33     for(i = 0; i < n; i++)
34         scanf("%d", &arr[i]);
35
36     scanf("%d", &x);
37
38     int ceil_idx = -1;
39     for(i = 0; i < n; i++) {
40         if(arr[i] >= x) {
41             ceil_idx = i;
42             break;
43         }
44     }
45
46     printf("%d\n", ceil_idx);
47     return 0;
48 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc .\abc.c

PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe

7

1 2 8 10 11 12 19

5

2

PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc .\abc.c

PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe

7

1 2 8 10 11 12 19

20

-1

PS C:\Users\drago\OneDrive\Desktop\C.H.W> gcc .\abc.c

PS C:\Users\drago\OneDrive\Desktop\C.H.W> ./a.exe

7

1 2 8 10 11 12 19

0

0

PS C:\Users\drago\OneDrive\Desktop\C.H.W> █