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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Week 9: Programming Assignment 2

Due on 2023-09-28, 23:59 IST

Write a C program to search a given element from a 1D array and display the position at which it is found by using linear search function. The index location starts from 1.

If already registered, click to check your payment status

Course outline

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Your last recorded submission was on 2023-09-25, 21:56 IST

```
Select the Language for this assignment. C 

1 #include <stdio.h>
2 int linear_search(int[], int, int);
3 int main()
```

```
4
 5
        int array[100], search, c, n, position;
 6
7
        /* search - element to search, c - counter, n - number of elements in
position - The position in which the element is first found in the lis
 8
 9
         scanf("%d", &n); // Number of elements in the array is read from the
10
11
         for (c = 0; c < n; c++)
12
         scanf("%d", &array[c]); //Elements of array is read from the test dat
13
14
         scanf("%d", &search); //Element to search is read from the test case
15
        /* Use the following in the printf statement to print the output
printf("%d is not present in the array.", search);
printf("%d is present at location %d.", search, position+1); //As arra
*/
16
17
18
19
20 for (c = 0; c < n; c++)
21
22
      if(array[c]==search)
23
24
         printf("%d is present at location %d.",search,c+1);
25
         return 01;
26
27
28 printf("%d is not present in the array.", search);
29 return 0;
```

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

- Lecture 41:
 Substitution
 of # include
 and Macro
 (unit?
 unit=85&lesso
 n=86)
- Lecture 42:
 "search" as a
 function (unit?
 unit=85&lesso
 n=87)
- Lecture 43:
 Binary Search
 (unit?
 unit=85&lesso
 n=88)
- Lecture 44:
 Binary Search
 (Contd.) (unit?
 unit=85&lesso
 n=89)
- Lecture 45:
 Sorting
 Methods
 (unit?
 unit=85&lesso
 n=90)
- Quiz: Week 9: Assignment 9 (assessment? name=260)
- Week 9:
 Programming
 Assignment 1
 (/noc23_cs121
 /progassignment?
 name=262)
- Week 9: Programmin g Assignment2

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program, your assignment will not be graded and you will not see your score after the deadline.

Save as <u>D</u>raft <u>Compile & Run <u>S</u>ubmit <u>R</u>eset</u>

Sample Test	Cases				
	Input	Output			
	5				
	78				
	90				
Test Case 1	34	90 is	present a	t	locatio
	54 98				
	90				
	6				
	30				
	40				
Test Case 2	50 20	90 is	present a	t lo	catio
	90				
	60				
	90				

(/noc23_cs12 1/progassign ment? name=263)

- Week 9: Programming Assignment 3 (/noc23_cs121 /progassignment? name=264)
- Week 9:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignment?
 name=265)
- Feedback
 Form of Week
 9 (unit?
 unit=85&lesso
 n=266)

Week 10 ()

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