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



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Course outline

How does an NPTEL online course work? ()

Week 0:()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 9: Programming Assignment 1

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

Write a program to print all the locations at which a particular element (taken as input) is found in a list and also print the total number of times it occurs in the list. The location starts from 1. For example if there are 4 elements in the array

5

6

5

7

If the element to search is 5 then the output will be

5 is present at location 1

5 is present at location 3

5 is present 2 times in the array.

Private Test cases used for evaluation	Input Expected Output	Actual Output	Status
Test Case 1	30 is present at location 1.\n 30 is present at location 4.\n 30 is present at location 6.\n 30 is present at location 7.\n 30 is present at location 7.\n 30 is present 4 times in the arra	30 is present at location 1.\n 30 is present at location 4.\n 30 is present at location 6.\n 30 is present at location 7.\n 30 is present 4 times in the array.\n	Passed

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Week 9 ()

Week 10 ()

Week 11 ()

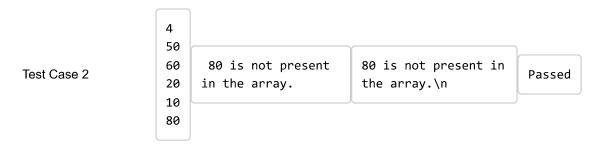
Week 12 ()

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Problem Solving Session -July 2023 ()



The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-28, 22:05 IST

Your last recorded submission was :

```
1 #include <stdio.h>
   int main()
 3
 4
       int array[100], search, n, count = 0;
 5
       //"search" is the key element to search and 'n' is the total number of ele
       // "count" is to store total number of elements
 6
 8
     scanf("%d", &n); //Number of elements is taken from test case
    int c;
  for (c = 0; c < n; c++)
     scanf("%d", &array[c]);</pre>
10
11
12
13
       scanf("%d", &search); // The element to search is taken from test case
14
15
   /* Use the printf statements as below: "%d is present at location %d.\n" for
16
   "%d is present at location %d.\n" for each locations "%d is not present in the array.\n" if the element is not found in the list
17
18
19
   "%d is present %d times in the array.\n
20
21
   for(c=0;c<n;c++)
22
   {
23
24
      if(array[c]==search)
25
        printf("%d is present at location %d.\n",search,c+1);
26
        count=count+1;
27
28
29
   if(count!=0)
30
31
      printf("%d is present %d times in the array.\n",search,count);
32
33
   else
34
35
      printf("%d is not present in the array.\n",search);
36
37
   return 0;
38 }
39
```

Sample solutions (Provided by instructor)

```
1 #include <stdio.h>
2 int main()
3 {
4    int array[100], search, n, count = 0;
5    //"search" is the key element to search and 'n' is the total number of ele
6    // "count" is to store total number of elements
7
8    scanf("%d", &n); //Number of elements is taken from test case
9
10 int c;
11    for (c = 0; c < n; c++)
12         scanf("%d", &array[c]);</pre>
```

```
13
14
       scanf("%d", &search); // The element to search is taken from test case
15
   /* Use the printf statements as below:
"%d is present at location %d.\n" for each locations
"%d is not present in the array.\n" if the element is not found in the list
16
17
18
   "%d is present %d times in the array.\n"
19
20
21
22
23
   for (c = 0; c < n; c++)
           if (array[c] == search)
24
25
               printf("%d is present at location %d.\n", search, c+1);
26
27
               count++;
28
       if (count == 0)
29
30
           printf("%d is not present in the array.\n", search);
31
           printf("%d is present %d times in the array.\n", search, count);
32
33
34
       return 0;
35 | }
```