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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	7 30 50 90 30 70 30 30 30	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.	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

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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Test Case 2	4 50 60 20 10 80	80 is not present in the array.	80 is not present in the array.\n	Passed

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 :

```c
#include <stdio.h>
int main()
{
   int array[100], search, n, count = 0;
   //"search" is the key element to search and 'n' is the total number of ele
   // "count" is to store total number of elements

 scanf("%d", &n); //Number of elements is taken from test case

 int c;
   for (c = 0; c < n; c++)
      scanf("%d", &array[c]);

   scanf("%d", &search); // The element to search is taken from test case

/* 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
"%d is present %d times in the array.\n"
*/
for(c=0;c<n;c++)
{
  if(array[c]==search)
  {
    printf("%d is present at location %d.\n",search,c+1);
    count=count+1;
  }
}
if(count!=0)
{
  printf("%d is present %d times in the array.\n",search,count);
}
else
{
  printf("%d is not present in the array.\n",search);
}
return 0;
}

```

Sample solutions (Provided by instructor)

```c
#include <stdio.h>
int main()
{
   int array[100], search, n, count = 0;
   //"search" is the key element to search and 'n' is the total number of ele
   // "count" is to store total number of elements

 scanf("%d", &n); //Number of elements is taken from test case

 int c;
   for (c = 0; c < n; c++)
      scanf("%d", &array[c]);
```

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