

## PROBLEM:

## CODE:

```
C: > Users > NoBody > Desktop > Data_Structure_lab_27012025 > arrayliniar_search.cpp > main()
1  #include<iostream>
2  using namespace std;
3
4  int main() {
5      int m,x;
6      cout << "Enter the array size : " ;
7      cin >> m;
8
9      int arr[m];
10
11     cout << "Enter array elements:" ;
12     for(int i=0; i<m ; i++){
13         cin >> arr[i] ;
14     }
15
16     cout << "array elementsare : " ;
17     for(int i=0; i<m ; i++){
18         cout << arr[i] << " " ;
19     }
20
21     cout << endl << "Enter the element you wont to search:" ;
22     cin >> x ;
23
24     int loc;
25
26     for(int i=0;i<m;i++){
27         if(arr[i]==x){
28             loc = i;
29             break;
30         }
31     }
32
33     if(loc){
34         cout << x << " is found in : Array[" << loc << "]" << endl ;
35     }else{
36         cout << "not founded." << endl ;
37     }
38
39     return 0;
40 }
```


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS


Code

```
C:\Users\NoBody>cd "c:\Users\NoBody\Desktop\Data_Structure_lab_27012025\" && g++ addel
ement_in_array.cpp -o addelement_in_array && "c:\Users\NoBody\Desktop\Data_Structure_l
ab_27012025\"addelement_in_array
Enter array size:5
Enter array elements:2 6 4 8 6
Enter a new element in array:5 6 8
Array after adding element:2 6 4 8 6 5
c:\Users\NoBody\Desktop\Data_Structure_lab_27012025>
```

## PROBLEM:

## CODE:

```
C: > Users > NoBody > Desktop > Data_Structure_lab_27012025 >  addelement_in_array2.cpp > ...  
32 #include <iostream>  
33 using namespace std;  
34  
35 int main() {  
36     int m;  
37     cout << "Enter the Maximum array element:" ;  
38     cin >> m;  
39  
40     int n,x;  
41  
42     cout << "Enter array initial array size:" ;  
43     cin >> n;  
44  
45     int arr[m];  
46  
47     cout << "Enter array elements:" ;  
48     for(int i=0; i<n ; i++){  
49         cin >> arr[i] ;  
50     }  
51  
52     cout << "Enter the number of element in array you wont to increase:" ;  
53     cin >> x ;  
54  
55     cout << "Enter the new elements:" ;  
56     for(int i=n; i<n+x ; i++){  
57         cin >> arr[i] ;  
58     }  
59  
60     cout << "Array after adding element:" ;  
61     for(int i=0; i<n+x ; i++){  
62         cout << arr[i] << " " ;  
63     }  
64  
65     return 0;  
66 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  Code

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```
C:\Users\NoBody>cd "c:\Users\NoBody\Desktop\Data_Structure_lab_27012025\" && g++ addelement_in_array2.cpp -o addelement_in_array2 && "c:\Users\NoBody\Desktop\Data_Structure_lab_27012025\"addelement_in_array2  
Enter the Maximum array element:12  
Enter array initial array size:5  
Enter array elements:2 5 6 3 9  
Enter the number of element in array you wont to increase:3  
Enter the new elements:5 6 8  
Array after adding element:2 5 6 3 9 5 6 8  
c:\Users\NoBody\Desktop\Data_Structure_lab_27012025>
```

PROBLEM:

CODE:

C: > Users > NoBody > Desktop > Data\_Structure\_lab\_27012025 > addelement\_in\_array.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n,x;
6
7      cout << "Enter array size:" ;
8      cin >> n;
9
10     int arr[n];
11
12     cout << "Enter array elements:" ;
13     for(int i=0; i<n ; i++){
14         cin >> arr[i] ;
15     }
16
17     cout << "Enter a new element in array:" ;
18     cin >> x;
19     arr[n] = x;
20
21     cout << "Array after adding element:" ;
22     for(int i=0; i<=n ; i++){
23         cout << arr[i] << " " ;
24     }
25
26     return 0;
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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```
C:\Users\NoBody>cd "c:\Users\NoBody\Desktop\Data_Structure_lab_27012025\" && g++ addelement_in_array.cpp -o addelement_in_array && "c:\Users\NoBody\Desktop\Data_Structure_lab_27012025\addelement_in_array
Enter array size:6
Enter array elements:1 2 5 8 9 4
Enter a new element in array:5 8 6
Array after adding element:1 2 5 8 9 4 5
c:\Users\NoBody\Desktop\Data_Structure_lab_27012025>
```