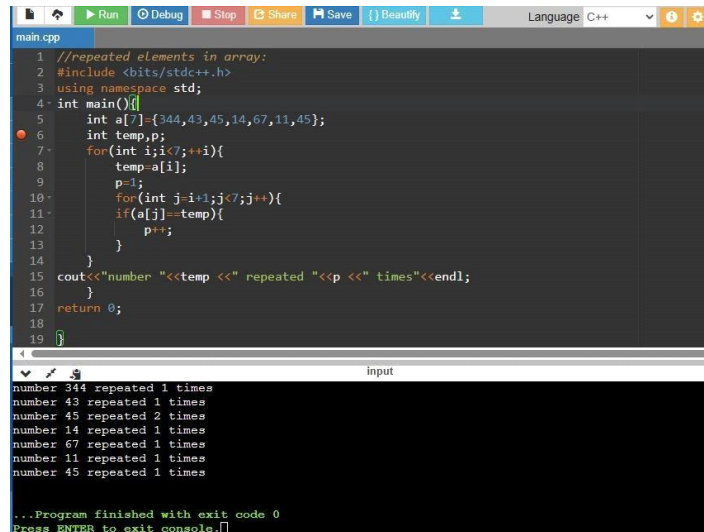


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Course: FOP.

### Task no.1:

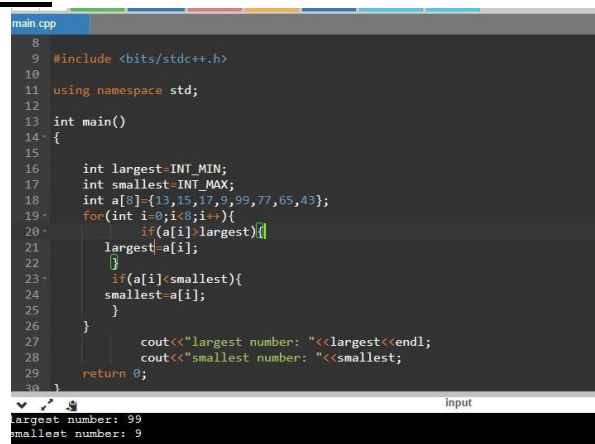


```
1 //repeated elements in array:
2 #include <bits/stdc++.h>
3 using namespace std;
4 int main(){
5     int a[7]={344,43,45,14,67,11,45};
6     int temp,p;
7     for(int i;i<7;++i){
8         temp=a[i];
9         p=1;
10        for(int j=i+1;j<7;j++){
11            if(a[j]==temp){
12                p++;
13            }
14        }
15        cout<<"number "<<temp <<" repeated "<<p <<" times"<<endl;
16    }
17    return 0;
18 }
19 }
```

Input:

```
number 344 repeated 1 times
number 43 repeated 1 times
number 45 repeated 2 times
number 14 repeated 1 times
number 67 repeated 1 times
number 11 repeated 1 times
number 45 repeated 1 times
...Program finished with exit code 0
Press ENTER to exit console.
```

### Task no.2:



```
8
9 #include <bits/stdc++.h>
10
11 using namespace std;
12
13 int main()
14 {
15     int largest=INT_MIN;
16     int smallest=INT_MAX;
17     int a[9]={12,45,17,9,99,77,65,43};
18     for(int i=0;i<9;i++){
19         if(a[i]>largest){
20             largest=a[i];
21         }
22         if(a[i]<smallest){
23             smallest=a[i];
24         }
25     }
26     cout<<"largest number: "<<largest<<endl;
27     cout<<"smallest number: "<<smallest;
28     return 0;
29 }
30 }
```

Input:

```
largest number: 99
smallest number: 9
```

### Task no.3:

Write a C++ program to swap 2nd to 4th position in array

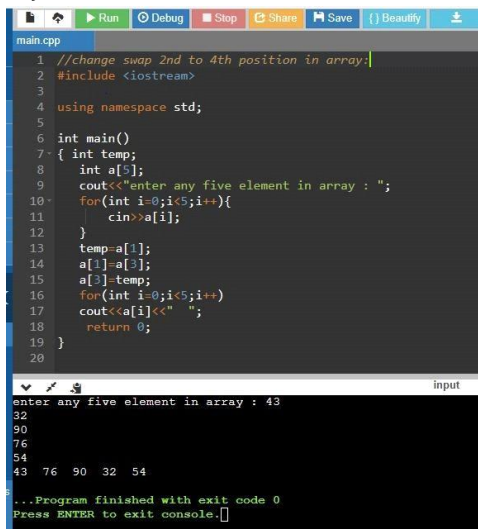
#include <iostream>

```
using namespace std;int
```

```
main()
```

```
{ int temp;
  int a[5];
  cout<<"enter any five element in array : ";for(int
  i=0;i<5;i++){

      cin>>a[i];
  }
  temp=a[1];
  a[1]=a[3];
  a[3]=temp;
  for(int i=0;i<5;i++)
  cout<<a[i]<<" "; return
  0;
}
```



The screenshot shows a C++ IDE with a file named 'main.cpp'. The code is as follows:

```
1 //change swap 2nd to 4th position in array;
2 #include <iostream>
3
4 using namespace std;
5
6 int main()
7 { int temp;
8   int a[5];
9   cout<<"enter any five element in array : ";
10  for(int i=0;i<5;i++){
11    cin>>a[i];
12  }
13  temp=a[1];
14  a[1]=a[3];
15  a[3]=temp;
16  for(int i=0;i<5;i++)
17    cout<<a[i]<<" ";
18  return 0;
19 }
20
```

The output window shows the following text:

```
enter any five element in array : 43
32
90
76
54
43 76 90 32 54

...Program finished with exit code 0
Press ENTER to exit console.
```