

1) Write a C++ program to find the largest element of a given array of integers.

```
#include<iostream>

using namespace std;

int main(){

int n;

cin >> n;

int arr[n];

for(int i =0; i < n; i++){

cin >> arr[i];

}

int max = arr[0];

for(int i= 1; i < n;i++){

if(arr[i] >= max){

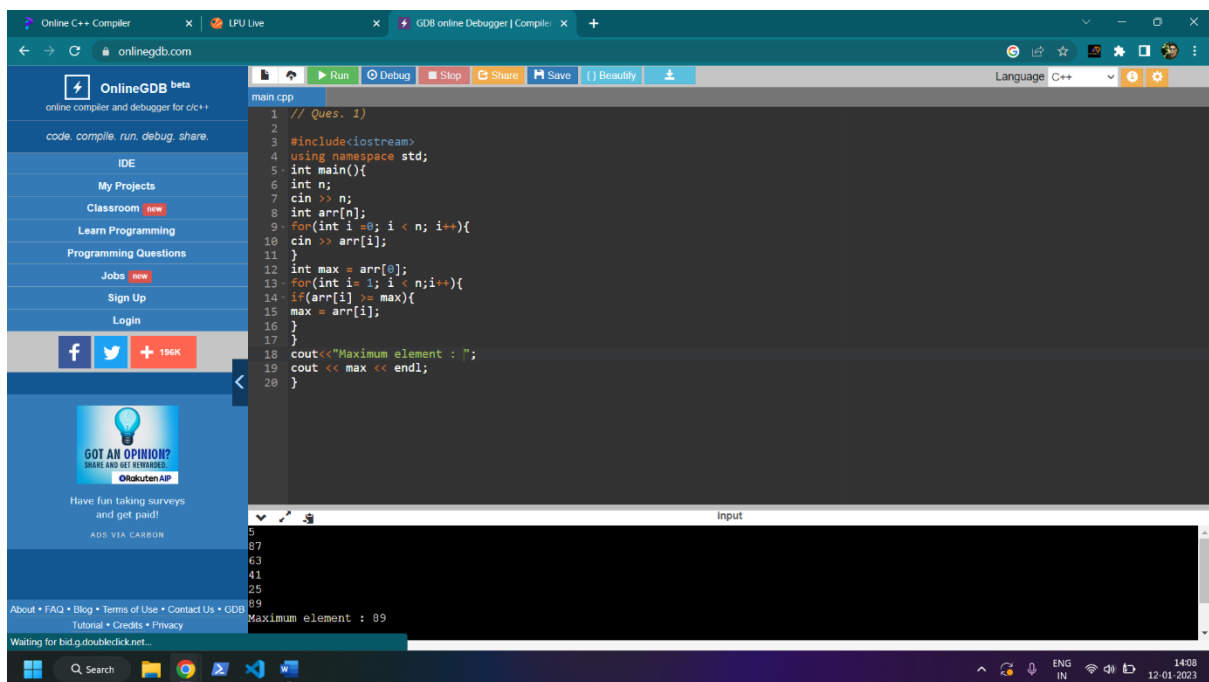
max = arr[i];

}

}

cout << max << endl;

}
```



The screenshot shows the OnlineGDB website interface. The code editor contains the same C++ program. The input field shows the values 5, 87, 63, 41, 25, 89. The output field shows 'Maximum element : 89'. The website's sidebar on the left contains links for 'OnlineGDB beta', 'code, compile, run, debug, share.', 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Jobs', 'Sign Up', and 'Login'. At the bottom, there is a 'GOT AN OPINION?' section with a 'Share Your Opinion' button and a 'Waiting for bid.g.doubleclick.net...' message.

2) Write a C++ program to find the largest three elements in an array.

```
#include<bits/stdc++.h>

using namespace std;

int main(){

int n;

cin >> n;

int arr[n];

for(int i = 0; i < n; i++){

cin >> arr[i];

}

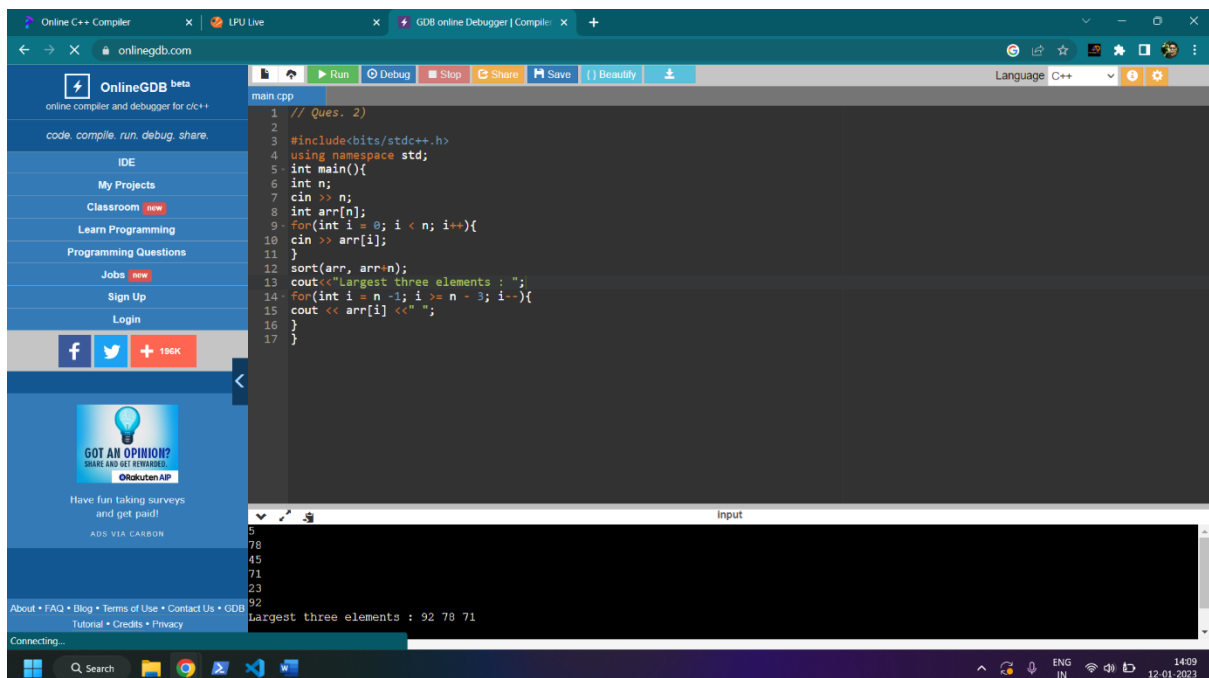
sort(arr, arr+n);

for(int i = n -1; i >= n - 3; i--){

cout << arr[i] <<" ";

}

}
```



The screenshot shows the OnlineGDB website interface. The code editor contains the following C++ program:

```
1 // Ques. 2)
2 #include<bits/stdc++.h>
3 using namespace std;
4 int main(){
5     int n;
6     cin >> n;
7     int arr[n];
8     for(int i = 0; i < n; i++){
9         cin >> arr[i];
10    }
11    sort(arr, arr+n);
12    cout<<"Largest three elements : ";
13    for(int i = n -1; i >= n - 3; i--){
14        cout << arr[i] <<" ";
15    }
16 }
17 }
```

The output window shows the following result:

```
5
78
45
71
23
92
Largest three elements : 92 78 71
```

3) Write a C++ program to find second largest element in a given array of integers.

```
#include<bits/stdc++.h>
```

```
using namespace std;
```

```
int main(){
```

```
int n;
```

```
cin >> n;
```

```
int arr[n];
```

```
for(int i = 0; i < n; i++){
```

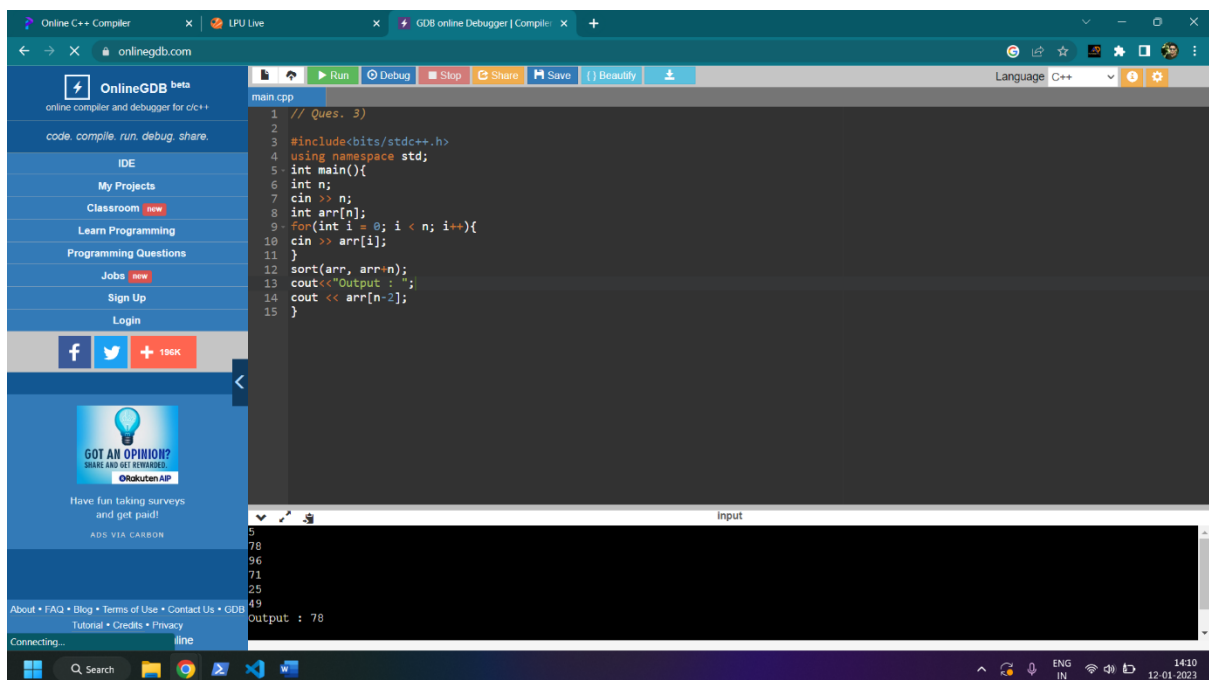
```
cin >> arr[i];
```

```
}
```

```
sort(arr, arr+n);
```

```
cout << arr[n-2];
```

```
}
```



The screenshot shows the OnlineGDB website interface. The left sidebar contains navigation links like 'My Projects', 'Classroom', 'Learn Programming', and 'Programming Questions'. The main editor area displays the C++ code for finding the second largest element in an array. The code is as follows:

```
1 // Ques. 3)
2
3 #include<bits/stdc++.h>
4 using namespace std;
5 int main(){
6     int n;
7     cin >> n;
8     int arr[n];
9     for(int i = 0; i < n; i++){
10         cin >> arr[i];
11     }
12     sort(arr, arr+n);
13     cout<<"Output : ";
14     cout << arr[n-2];
15 }
```

The output window at the bottom shows the result: 'Output : 78'.

4) Write a C++ program to find k largest elements in a given array of integers.

```
#include<bits/stdc++.h>

using namespace std;

int main(){

int n;

cin >> n;

int arr[n];

for(int i = 0; i < n; i++){

cin >> arr[i];

}

sort(arr, arr+n);

int k;

cout <<"Enter the value of K" << endl;

cin >> k;

{

if(k <= n -1){

for(int i = n -1; i >= n - k; i--){

cout << arr[i] <<" ";

}

}

else

{

cout <<"you cannot print " << endl;

}

}

}
```

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main.cpp

```
1 // Ques. 4)
2
3 #include<bits/stdc++.h>
4 using namespace std;
5 int main(){
6     int n;
7     cin >> n;
8     int arr[n];
9     for(int i = 0; i < n; i++){
10         cin >> arr[i];
11     }
12     sort(arr, arr+n);
13     int k;
14     cout << "Enter the value of K" << endl;
15     cin >> k;
16     {
17         if(k <= n - 1){
18             for(int i = n - 1; i >= n - k; i--){
19                 cout << arr[i] << " ";
20             }
21         }
22         else{
23             cout << "you cannot print " << endl;
24         }
25     }
```

Input

```
5
78
63
61
49
47
Enter the value of K
2
78 63
...Program finished with exit code 0
```

Language C++

Run Debug Stop Share Save Beauty

14:11
12-01-2023

5) Write a C++ program to find the most occurring element in an array of integers.

```
#include<bits/stdc++.h>

using namespace std;

int main(){

int n;

cin >> n;

int arr[n];

for(int i = 0; i < n; i++){

cin >> arr[i];

}

int maxi = INT_MIN; // 1

int count = 1;

int ele = arr[0];

sort(arr, arr+n);

for(int i = 0; i < n -1; i++){

if(arr[i] == arr[i+1]){

count++;

maxi = max(maxi, count);

ele = arr[i];

}

else{

count = 1;

}

}

cout << "count of maximum element is " << maxi << endl;

cout << "max element is " << ele << endl;

}
```

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main.cpp

```
1 // Ques. 5)
2 #include<bits/stdc++.h>
3 using namespace std;
4 int main(){
5     int n;
6     cin >> n;
7     int arr[n];
8     for(int i = 0; i < n; i++){
9         cin >> arr[i];
10    }
11    int maxi = INT_MIN; // 1
12    int count = 1;
13    int ele = arr[0];
14    sort(arr, arr+n);
15    for(int i = 0; i < n -1; i++){
16        if(arr[i] == arr[i+1]){
17            count++;
18            maxi = max(maxi, count);
19            ele = arr[i];
20        }
21        else{
22            count = 1;
23        }
24    }
25    cout << "count of maximum element is " << maxi << endl;
26    cout << "max element is " << ele << endl;
27 }
28
```

Input

```
5
1
1
2
6
1
count of maximum element is 3
max element is 1
```

Language C++