



NAME	SECTION	CMS
ALI ZEESHAN RAUF	C	467537

1. Take an array and find the most repeated element in that array.A

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int n, arr[n];
6     cout<<"Enter number of terms for array: ";
7     cin>>n;
8     cout<<"Enter your numbers: "<<endl;
9     for(int i=0;i<n;i++)
10    {
11        cin>>arr[i];
12    }
13    int x,y;
14    int z=arr[0];
15    cout<<"The most repeating element of array is: ";
16    for(int i=0;i<n;i++)
17    {
18        z=1;
19        for(int j=0;j<n;j++)
20        {
21            if(arr[i]==arr[j])
22            {
23                z++;
24            }
25        }
26        if(z>y)
27        {
28            y=z;
29            x=arr[i];
30        }
31    }
32    cout<<x;
33    return 0;
34 }
```

```
Select D:\FOP\lab manuals\pppp.exe
Enter number of terms for array: 4
Enter your numbers:
2
2
3
4
The most repeating element of array is: 2
-----
Process exited after 11.29 seconds with return value 0
Press any key to continue . . .
```

2. Let's say an array is $a[8] = \{13, 15, 17, 9, 99, 77, 65, 43\}$. Find largest and smallest element.

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int arr[8]={13,15,17,9,99,77,65,43};
6     int small=arr[0],large=arr[0];
7     for(int i=0;i<8;i++)
8     {
9         if (arr[i]<small)
10        {
11            small=arr[i];
12        }
13        if(arr[i]>large)
14        {
15            large=arr[i];
16        }
17    }
18    cout<<"The largest number in the array is: "<<large<<endl;
19    cout<<"The smallest number in the array is: "<<small<<endl;
20    return 0;
21 }
```

```
D:\FOP\lab manuals\pppp.exe
The largest number in the array is: 99
The smallest number in the array is: 9
-----
Process exited after 17.21 seconds with return value 0
Press any key to continue . . .
```

3. Develop a program that takes 5 array elements from user. Swap position [2] element with position [4] element. (Hint: Use the same method of swapping values we used for variables using a third variable temp).

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      cout<<"Enter array of five integers: "<<endl;
6      int arr[5];
7      for(int i=0;i<5;i++)
8      {
9          cin>>arr[i];
10     }
11     int temp;
12     temp=arr[1];
13     arr[1]=arr[3];
14     arr[3]=temp;
15     cout<<"Resultant array after swapping position 2 and 4 is: "<<endl;
16     for (int j=0;j<5;j++)
17     {
18         cout<<arr[j]<<endl;
19     }
20     return 0;
21 }
```

```
Enter array of five integers:
43
56
77
89
66
Resultant array after swapping position 2 and 4 is:
43
89
77
56
66
-----
Process exited after 12.96 seconds with return value 0
Press any key to continue . . .
```