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

**Solve:**

**#include <iostream>**

**using namespace std;**

**int printMax(int arr[], int n)**

**{**

**int max = arr[0];**

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

**{**

**if (max < arr[i])**

**{**

**max = arr[i];**

**}**

**}**

**return max;**

**}**

**int main()**

**{**

**int arr[] = { 21, 11, 27, 5, 81, 4, 30 };**

**int n = sizeof(arr) / sizeof(arr[0]);**

**cout<<"The largest element is: "<<printMax(arr, n);**

**return 0;**

**}**

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

**Solve:**

**#include <iostream>**

**using namespace std;**

**void maxValue(int arr[], int n)**

**{**

**int i, v1, v2, v3;**

**if (n < 3)**

**{**

**cout << " Wrong Input ";**

**}**

**v3 = v1 = v2 ;**

**for (i = 0; i < n ; i ++)**

**{**

**if (arr[i] > v1)**

**{**

**v3 = v2;**

**v2 = v1;**

**v1 = arr[i];**

**}**

**else if (arr[i] > v2)**

**{**

**v3 = v2;**

**v2 = arr[i];**

**}**

**else if (arr[i] > v3)**

**v3 = arr[i];**

**}**

**cout <<"Three largest elements is: " <<v1 <<", "<< v2 <<", "<< v3;**

**}**

**int main()**

**{**

**int arr[] = { 21, 63, 11, 27, 5, 91, 4, 30, 79, 6, 59 };**

**int n = sizeof(arr) / sizeof(arr[0]);**

**maxValue(arr, n);**

**return 0;**

**}**

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

**Solve:**

**#include <iostream>**

**using namespace std;**

**void maxValue(int arr[], int n)**

**{**

**int i, v1, v2;**

**if (n < 2)**

**{**

**cout << "Wrong Input";**

**}**

**v1 = v2 ;**

**for (i = 0; i < n ; i ++)**

**{**

**if (arr[i] > v1)**

**{**

**v2 = v1;**

**v1 = arr[i];**

**}**

**else if (arr[i] > v2)**

**{**

**v2 = arr[i];**

**}**

**}**

**cout <<"The second largest elements is: "<<v2;**

**}**

**int main()**

**{**

**int arr[] = { 0, 63, 11, 5, 91, 4, 30, 79, 6, 59 };**

**int n = sizeof(arr) / sizeof(arr[0]);**

**maxValue(arr, n);**

**return 0;**

**}**