

**C++ Assignments | Arrays - 1 | Week 5**

****Calculate the product of all the elements in the given array.

Code :-

#include<iostream>

Using namespace std;

Int main()

{  
Int n;

cout<<”Enter the array size: “;

cin>>n;

Int arr[n];

fora(int i = 0; i < n; i++)

{

cin>>arr[i];

}

Int sum = 1;

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

{  
sum = sum \*arr[i];

}

cout<<”total : “<<sum;

return 0;

}

Find the second largest element in the given Array in one pass.

#include<iostream>

using namespace std;

int main()

{

int n;

cout<<"enter the size of the array:";

cin>>n;

int arr[n];

int i = arr[n]; //1 2 3 4 5

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

{

cin>>arr[i];

}

//display array

cout<<"array:"<<endl;

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

{

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

}

// //output

// // largest element

int max = arr[0];

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

{

if ( max < arr[i]) max = arr[i];

}

cout<<"largest no is :"<<max<<endl;

// output

// second largest number

int smax1 = arr[0];

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

{

if ( smax1 < arr[i] && arr[i]!=max ) smax1=arr[i];

}

cout<<"second largest no is :"<<smax1<<endl;

return 0;

}

Find the minimum value out of all elements in the array.

#include<iostream>

using namespace std;

int main()

{

int n;

cout<<"enter the size of array:"<<endl;

cin>>n;

//array

int arr[n];

//input

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

{

cin>>arr[i];

}

//display array:

cout<<"array is :";

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

{

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

}

cout<<endl;

//min value

int min = arr[0];

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

{

if (arr[i] < min ) min = arr[i];

}

cout<<"min value is :"<<min<<endl;

return 0;

}

Given an array, predict if the array contains duplicates or not.

// imp // Given an array, predict if the array contains duplicates or not.

#include <iostream>

using namespace std;

int main()

{

int n;

cout << "Enter the size of array:";

cin >> n;

int arr[n];

// input

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

{

cin >> arr[i];

}

// 1diaplay array

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

{

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

}

cout << endl;

// duplicates or not

bool flag = false;

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

{

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

{

if (arr[i] == arr[j])

{

flag = true;

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

break;

}

}

}

if (flag == false)

cout << "No duplicate";

return 0;

}

WAP to find the smallest missing positive element in the sorted Array that contains only positive elements.

#include<iostream>

using namespace std;

int main()

{

int n;

cout<<"enter the size of the array:";

cin>>n;

int arr[n];

cout<<"note only contain the positive elements : ";

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

{

cin>>arr[i];

}

// display

cout<<"array:";

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

{

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

}

cout<<endl;

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

{

if (arr[i] <= 0) continue;

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

cout<<"this is the missing smallest element : "<<arr[i]+1;

break;

}

}

return 0;

Predict the output.

int main()

{

int sub[50], i ;

for ( i = 0 ; i <= 48 ; i++ ) ;

{

sub[i] = i ;

cout<<sub[i]<<endl ;

}

return 0;

}

*Ans is 49.*