TASK 1

#include <iostream>

using namespace std;

int RepeatedElement(int arr[], int size);

int main() {

int reparr[]={1,5,5,2,1,5,5,5,3,3,3};

int length=11;

int result = RepeatedElement(reparr, length);

cout<<"The most repeated element is: "<<result<<endl;

return 0;

}

int RepeatedElement(int arr[], int size) {

int Repeated = arr[0];

int maxf = 1;

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

int currentf = 1;

for (int j = i + 1; j < size; ++j) {

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

++currentf;

}

}

if (currentf > maxf) {

maxf = currentf;

Repeated = arr[i];

}

}

return Repeated;

}



TASK 2

#include<iostream>

using namespace std;

int main()

{

int a[8] = {13, 15, 17, 9, 99, 77, 65, 43};

int largest=a[0],smallest=a[0];

for(int i=1;i<8;i++){

if(a[i]>largest){

largest=a[i];

}

if(smallest>a[i]){

smallest=a[i];

}

}

cout<<"largest number in array is "<<largest<<endl;

cout<<"smallest number in array is "<<smallest<<endl;

return 0;

}



TASK 3

#include<iostream>

using namespace std;

int main()

{

int user[5],temp,length=5;

for(int i=0;i<5;i++){

cout<<"enter integer number "<<i+1<<" ";

cin>>user[i];

cout<<endl;

}

cout<<"your input array was ";

for(int i=0;i<5;i++){

cout<<user[i]<<" ";

}

cout<<endl;

temp=user[2];

user[2]=user[4];

user[4]=temp;

cout<<"your new array is ";

for(int i=0;i<5;i++){

cout<<user[i]<<" ";

}

cout<<endl;

return 0;

}

