Home task lab manual 8

#include<iostream>

using namespace std;

void most\_occurred\_number(int nums[], int size)

{

int max\_count = 0;

cout << "\nMost occurred number: ";

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

{

int count=1;

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

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

count++;

if (count>max\_count)

max\_count = count;

}

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

{

int count=1;

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

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

count++;

if (count==max\_count)

cout << nums[i] << endl;

}

}

int main()

{

int nums[] = {4, 5, 9, 12, 9, 22, 45, 7};

int n = sizeof(nums)/sizeof(nums[0]);

cout << "Original array: ";

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

cout << nums[i] <<" ";

most\_occurred\_number(nums, n);

}

#include<iostream>

using namespace std;

int main ()

{

int arr[10], n, i, max, min;

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

cin >> n;

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

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

cin >> arr[i];

max = arr[0];

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

{

if (max < arr[i])

max = arr[i];

}

min = arr[0];

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

{

if (min > arr[i])

min = arr[i];

}

cout << "Largest element : " << max;

cout << "Smallest element : " << min;

return 0;

}

#include <iostream>

void swapElements(int arr[], int index1, int index2) {

int temp = arr[index1];

arr[index1] = arr[index2];

arr[index2] = temp;

}

int main() {

const int size = 5;

int array[size] = {1, 2, 3, 4, 5};

std::cout << "Original Array: ";

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

std::cout << array[i] << " ";

}

std::cout << std::endl;

// Swap elements at index 1 and 3

swapElements(array, 1, 3);

std::cout << "Array after swapping elements at index 1 and 3: ";

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

std::cout << array[i] << " ";

}

std::cout << std::endl;

return 0;

}