#include "pch.h"

#include <iostream>

#include <ctime>

using namespace std;

void zad1()

{

srand(time(0));

const int razmer = 10;

int arr[razmer];

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

{

//cin >> arr[i];

arr[i] = rand() %21 - 10;

}

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

{

cout << arr[i] << endl;

}

}

void zad2()

{

const int razmer = 10;

int arr[razmer];

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

{

cin >> arr[i];

}

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

{

cout << arr[i] << endl;

}

}

void zad3()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], sum = 0;

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

{

arr[i] = rand() % 201 - 100;

}

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

{

sum += arr[i];

}

cout << sum;

}

void zad4()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], proizv = 1;

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

{

arr[i] = rand() % 201 - 100;

}

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

{

proizv \*= arr[i];

}

cout << proizv;

}

void zad5()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], count = 0;

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

{

arr[i] = rand() % 201 - 100;

}

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

{

if (arr[i] > 0)

count++;

}

cout << count;

}

void zad6()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], count = 0;

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

{

arr[i] = rand() % 201 - 100;

}

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

for (int j = 0; j < razmer-1; j++) {

if (arr[j] > arr[j + 1]) {

int temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

}

for (int i = 0; i < 10; i++) {

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

}

cout << endl;

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

for (int j = 0; j < razmer - 1; j++) {

if (arr[j] < arr[j + 1]) {

int temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

}

for (int i = 0; i < 10; i++) {

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

}

}

void zad7()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], sum = 0;

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

{

arr[i] = rand() % 201 - 100;

}

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

{

sum += arr[i];

}

cout << sum/razmer;

}

void zad8()

{

srand(time(0));

const int razmer = 10;

int arr[razmer], max = 0;

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

{

arr[i] = rand() % 201 - 100;

}

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

{

if (arr[i] > max)

max = arr[i];

}

cout << max;

}

void zad9()

{

srand(time(0));

const int razmer = 10;

int arr[razmer];

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

{

arr[i] = rand() % 201 - 100;

}

int min = arr[0];

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

{

if (arr[i] < min)

min = arr[i];

}

cout << min;

}

void zad10()

{

srand(time(0));

const int razmer = 10;

int arr[razmer];

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

{

arr[i] = rand() % 21 - 10;

}

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

{

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

}

}

void zad11()

{

srand(time(0));

const int razmer = 10;

int arr[razmer];

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

{

arr[i] = rand() % 21 - 10;

}

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

{

cout << arr[i] << endl;

}

}

int main()

{

zad1();

zad2();

zad3();

zad4();

zad5();

zad6();

zad7();

zad8();

zad9();

zad10();

zad11();

}