Назиров Мехрон Илхомович, 3ПКС-320, Билет №3

Листинг:

#include <iostream>

#include <string>

#include <cstdlib>

#include <ctime>

#include <fstream>

#include <Windows.h>

#include <vector>

#include <cmath>

using namespace std;

class Turist

{

public:

string name;

int marsh[6];

Turist()

{

}

Turist(string \_name) {

name = \_name;

}

};

int random\_for\_way()

{

return 1 + rand() % 40;

}

string mr\_tostring(Turist turist)

{

string str = "";

for (int i = 0; i < 6; i++)

{

str += to\_string(turist.marsh[i]);

if (i != 5)

{

str += ", ";

}

else

{

str += ";";

}

}

return str;

}

void output\_info(Turist turist)

{

cout << turist.name;

cout <<" " << mr\_tostring(turist);

cout << endl;

}

double average(Turist turist)

{

double average;

unsigned int sum = 0;

\_\_asm

{

xor eax, eax//обнуляем

xor ecx, ecx//обнуляем

mov ecx, 0

metka:

add eax, turist.marsh[ecx \* 4]

inc ecx//есх+1

cmp ecx, 5//сравниваем

jl metka//если меьнше

mov sum, eax

}

average = (double)sum /6;

return average;

}

int main()

{

srand((unsigned int)time(NULL));

SetConsoleCP(1251);

SetConsoleOutputCP(1251);

Turist tur1, tur2, tur3;

tur1.name = "Назиров";

tur2.name = "Лямин";

tur3.name = "Толкач";

for (int i = 0; i < 6; i++)

{

tur1.marsh[i] = random\_for\_way();

tur2.marsh[i] = random\_for\_way();

tur3.marsh[i] = random\_for\_way();

}

output\_info(tur1);

output\_info(tur2);

output\_info(tur3);

double avg1 = average(tur1);

double avg2 = average(tur2);

double avg3 = average(tur3);

cout << endl;

cout << tur1.name << endl;

cout << "Средний маршрут: "<< round(avg1\*100)/100 << endl;

cout << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

cout << tur2.name << endl;

cout << "Средний маршрут: "<< round(avg2\*100)/100 << endl;

cout << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

cout << tur3.name << endl;

cout << "Средний маршрут: " << round(avg3\*100)/100 << endl;

cout << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

std::ofstream out;

out.open("C:/Users/mehro/Туристы.txt");

if (out.is\_open())

{

out << tur1.name << endl;

out << "Все маршруты: " << mr\_tostring(tur1) << endl;

out << "Средний маршрут: " << avg1 << endl;

out << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

out << tur2.name << endl;

out << "Все маршруты: " << mr\_tostring(tur2) << endl;

out << "Средний маршрут: " << avg2 << endl;

out << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

out <<tur3.name << endl;

out << "Все маршруты: " << mr\_tostring(tur3) << endl;

out << "Средний маршрут: " << avg3 << endl;

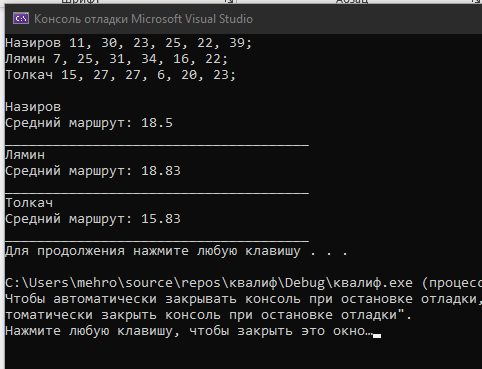
out << "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" << endl;

}

system("pause");

return 0;

}



Изображение выглядит как текст

Автоматически созданное описание