Цэрэнбат Номин-Эрдэнэ

(20B1NUM0426)

ICSI201 - Объект хандлагат програмчлал

МУИС-ХШУИС

Мэдээллийн технологи

(Лаборатори №1)

Ц.Номин-Эрдэнэ (20B1NUM0426)

1.

```cpp
#include <iostream>
#include <conio.h>
using namespace std;

int max(int, int, int);
int main(){
    int a, b, c;
    cout << "a, b, c= ";
    cin >> a >> b >> c;
    int d = max(a,b,c);
    cout<<"Hamgiin ih too n: "<<d;
    getch();
    return 0;
}

int max(int a, int b, int c){
    int n;
    if(a >= b && a >= c){
        n = a;
    }
    else if(b >= a && b >= c){
        n = b;
    }
    else{
    n = c;
    }
    return n;
}

//a,b,c gurvan tooni hamgiin ihiig oloh hereglegchiin funkts bich
```

```
C:\Users\nomin\OneDrive\Documents\oop\1.1.exe

a, b, c= 5 10 6
Hamgiin ih too n: 10
```

2.

```cpp
#include <iostream>
using namespace std;


int main(){
    int max = 0, min = 0, n, a[10], i;
    cout<<"heden too oruulahaa oruulna uu= ";
    cin>>n;

    cout<<"Toonuudaa oruulna uu: ";
    for(i = 0; i < n; i++)
    cin>>a[i];
    max = a[0];

    for(i = 0; i < n; i++){
        if(max < a[i])
        max = a[i];
    }
    min = a[0];
    for (i = 0; i < n; i++)
    {
        if (min > a[i])
            min = a[i];
    }
    cout << "Hamgiin ih too: " << max;
    cout << "\nHamgiin baga too: " << min;
    return 0;
}

//ugugdsun n shirheg tooni hamgiin ih/ hamgiin bagiig oloh
```

```
C:\Users\nomin\OneDrive\Documents\oop\1.2.exe

heden too oruulahaa oruulna uu= 3
Toonuudaa oruulna uu: 12 55 2
Hamgiin ih too: 55
Hamgiin baga too: 2
--------------------------------
Process exited after 28.16 seconds with return value 0
Press any key to continue . . .
```

3.

```cpp
#include<stdio.h>
#include <iostream>
using namespace std;

int even(int arr[], int n);

int main(){
    int i, n, t;
    cout<<"heden too oruulahaa oruulna uu= ";
    cin>>n;
    int arr1[n];
    for(i = 0; i < n; i++){
    cin>>arr1[i];
    }
    t = even(arr1, n);
    cout<<"tegsh elementuud: "<<t;

}

int even(int arr[], int n){
    int t=0;
    for(int i=0; i<n ; i++){
        if(arr[i]%2 == 0){
        t++;
        }
    }
  return t;

}

//ugugdsun husnegtiin tegsh elementuudin toog oloh hegerlegchiin funkts bich
```

C:\Users\nomin\OneDrive\Documents\oop\1.3.exe

```
heden too oruulahaa oruulna uu= 5
1 2 3 4 4
tegsh elementuud: 3
------------------------------
Process exited after 9.545 seconds with return value 0
Press any key to continue . . .
```

4. Зассан бодлого:

`1.4.cpp` `2.2.cpp` `[*] 2.3.cpp` `2.4.cpp`

```cpp
#include <iostream>
using namespace std;

int avg(int arr[], int n){ // sondgoi elementuudiin  dundjiig olno
    int s=0;
    for(int i=1; i<n; i=i+2){
        s=s+arr[i];
    }
    s = s/(n/2);
    cout<<s<<"\n";
    return s;
}


int main(){
    int n, i, o, a;
    cout<<"heden too oruulahaa oruulna uu= ";
    cin>>n;

    int arr[n];
    cout<<"Toonuudaa oruulna uu: ";
    for(i = 0; i < n; i++){
    cin>>arr[i];
    }
    a = avg(arr, n);
    cout<<"dundaj ="<<a<<"\n";
}

//ugugdsun husnegtiin sondgoi elementuudiin arifmetik dundjiig oloh hereglegchiin funkts bich
```

```
C:\Users\nomin\OneDrive\Documents\oop\1.4.exe

heden too oruulahaa oruulna uu= 6
Toonuudaa oruulna uu: 1 2 3 4 5 6
4
dundaj =4


--------------------------------
Process exited after 5.065 seconds with retu
```

5.

```cpp
#include <iostream>
using namespace std;

int anhniiToo(int n){   //
    int i, s, j;
    for(i = 1, s = 0; i < n; i++){
            if(n%i==0)
                s++;
            }
            return s;
}

int main(){
    int i, s, n, j, a;
    cout<<"Hamgiin ehnii anhnii 10 too: \n";
    for(n = 2, j = 0; j < 10; n++){
        s = anhniiToo(n);
        if(s==1){
            cout<<n<<" ";
            j++;
        }
    }
}

//hamgiin ehnii anhnii 10 toog oloh funkts bich
```

```
C:\Users\nomin\OneDrive\Documents\oop\1.5.exe

Hamgiin ehnii anhnii 10 too:
2 3 5 7 11 13 17 19 23 29
-------------------------------
Process exited after 0.07195 seconds with return value 0
Press any key to continue . . . _
```