

**O‘ZBEKISTON RESPUBLIKASI AXBOROT TEXNOLOGIYALARI VA  
KOMMUNIKATSIYALARINI RIVOJLANTIRISH VAZIRLIGI**

**MUHAMMAD AL-XORAZMIY NOMIDAGI TOSHKENT AXBOROT  
TEXNOLOGIYALARI UNIVERSITETI**



Informatika asoslari kafedrası  
Dasturlash Fani

## **4 - AMALIY ISH**

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## 1-topshiriq

12.04.2003

18	Butun $n$ ( $n > 1$ ) soni va $n$ ta butun sonlardan iborat ketma-ketlik berilgan. Ulardan nechitasi eng katta qiymat qabul qilishi aniqlansin.
----	---

```
#include <iostream>
#include <cmath>
#include <algorithm>
```

```
using namespace std;
```

```
int main(){
    int n, k = -10000; cin >> n;
    int a[n];
    for(int i=0; i<n; i++){
        cin >> a[i];
        k = max(k, a[i]);
    }
    int s=0;
    for(int i=0; i<n; i++)
        if(a[i] == k) s++;
    cout << k << " sonidan " << s << "ta";
    return 0;
}
```



The screenshot shows a C++ IDE with the following code in a file named 4.1.cpp:

```
1 #include <iostream>
2 #include <cmath>
3 #include <algorithm>
4
5 using namespace std;
6
7 int main(){
8     int n, k = -10000; cin >> n;
9     int a[n];
10    for(int i=0; i<n; i++){
11        cin >> a[i];
12        k = max(k, a[i]);
13    }
14    int s=0;
15    for(int i=0; i<n; i++)
16        if(a[i] == k) s++;
17    cout << k << " sonidan " << s << "ta";
18    return 0;
19 }
```

The output window shows the execution results:

```
C:\Users\Acer\Desktop\M\4.1.exe
8
8 2 9 1 4 9 3 9
9 sonidan 3ta
-----
Process exited after 11.13 seconds with return value 0
Press any key to continue . . .
```

## 2-topshiriq

12.04.2003

18.	O'nlik kasr soni $z$ uchun uning $q(2 \leq q \leq 16)$ sanoq sistemasidagi verguldan keyingi to'rt xona aniqlikdagi ko'rinishi hosil qilinsin.
-----	--

```
#include<bits/stdc++.h>
using namespace std;
```

```
string converter(double num, int k_prec)
{
    string binary = "";
    int Integral = num;
    double fractional = num - Integral;
    while (Integral)
    {
        int rem = Integral % 2;
        binary.push_back(rem + '0');

        Integral /= 2;
    }
    reverse(binary.begin(),binary.end());
    binary.push_back('.');

    while (k_prec--)
    {
        fractional *= 2;
        int fract_bit = fractional;

        if (fract_bit == 1)
        {
            fractional -= fract_bit;
            binary.push_back(1 + '0');
        }
        else
            binary.push_back(0 + '0');
    }

    return binary;
}
```

```

int main()
{

    double n = 6.4;
    int q = 2;
    int k = 4;
    string s = converter(n, k);
    printf("%.1f soni %d sanoq sistemasida, verguldan keyingi %d xona aniqlikda:
", n, q, k); cout << s;
    return 0;
}

```

The screenshot shows a C++ IDE with two tabs: 4.1.cpp and 4.2.cpp. The code in 4.2.cpp is as follows:

```

1  #include<bits/stdc++.h>
2  using namespace std;
3
4  string converter(double num, int k_prec)
5  {
36
37  int main()
38  {
39
40      double n = 6.4;
41      int q = 2;
42      int k = 4;
43      string s = converter(n, k);
44      printf("%.1f soni %d sanoq sistemasida, verguldan keyingi %d xona aniqlikda: ", n, q, k); cout << s;
45      return 0;
46  }
47

```

The output window shows the following text:

```

C:\Users\Acer\Desktop\M\4.2.exe
6.4 soni 2 sanoq sistemasida, verguldan keyingi 4 xona aniqlikda: 110.0110
-----
Process exited after 0.1201 seconds with return value 0
Press any key to continue . . .

```

### 3-topshiriq

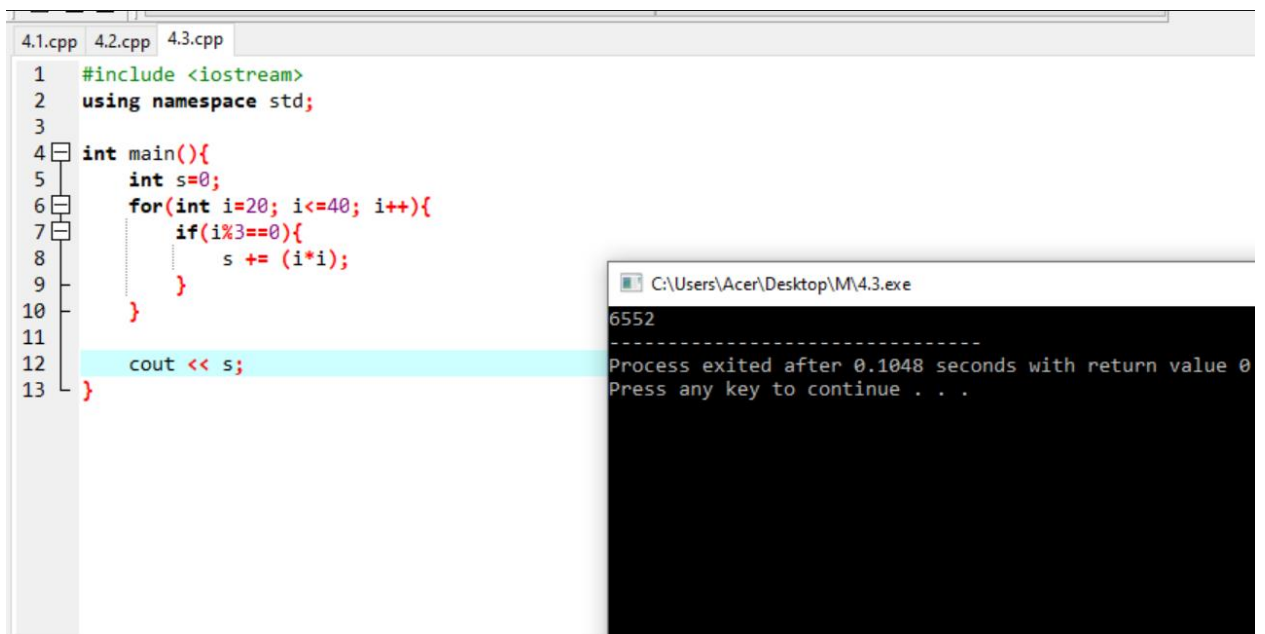
12.04.2003

- |     |  |
|-----|--|
| 18. | 20 dan 40 gacha 3 karrali bo'lgan butun sonlarning kvadratlari yig'indisini hisoblang. |
|-----|--|

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

```
int main(){
    int s=0;
    for(int i=20; i<=40; i++){
        if(i%3==0){
            s += (i*i);
        }
    }

    cout << s;
}
```



The screenshot shows a C++ IDE with a file named 4.3.cpp open. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main(){
5     int s=0;
6     for(int i=20; i<=40; i++){
7         if(i%3==0){
8             s += (i*i);
9         }
10    }
11
12    cout << s;
13 }
```

The output window shows the following text:

```
C:\Users\Acer\Desktop\M\4.3.exe
6552
-----
Process exited after 0.1048 seconds with return value 0
Press any key to continue . . .
```