#3270 Suma Divizorilor Pari

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

int main()
{
    long long unsigned x, s = 0, d2;
    cin >> x;
    for(long long d = 2; d*d <= x; d++)
    {
        if(x%d == 0)
       {
            if(d%2 == 0)
                s += d;
                 d2 = x/d;
            if(d2%2 == 0 && d!=d2)
                s += d2;
        }
    }
    if ( x % 2 == 0) s = s + x;
    cout<<s;
}
```

#388 Numarul Divizorilor Pari

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cin >> n;
    int divpar=0;
    for (int d = 1; d * d <= n; ++d)
        if (n % d == 0)
        {
            if (d % 2 == 0)
               divpar++;
            if (d * d != n && ((n / d) % 2 == 0))
               divpar++;
        }
    cout << divpar;
    return 0;
}
```

#389 DivizoriPariInterval

```
#include <iostream>
using namespace std;
int main()
{
    int a, b, i, Max = 0, Minnr = 0, Maxnr;
    cin>>a>>b;
    if(a%2==1)   a++;
    if(b%2==1)   b--;
    for(int j = a; j<=b; j = j+2)
    {
        int s1 = 0;
        for(i = 1; i*i <= j; i++)
        {
            if(j % i == 0)
            {
                if(i%2==0)s1++;
                if((j/i)%2==0)s1++;
            }
            if(i*i==j&&i%2==0)
                s1--;
        }
        if(s1>Max)   Max = s1;
    }
    for(int j = a; j<=b; j = j+2)
    {
        int s1 = 0;
        for(i = 1; i*i <= j; i++)
        {
            if(j % i == 0)
            {
                if(i%2==0)s1++;
                if((j/i)%2==0)s1++;
            }
            if(i*i==j&&i%2==0) s1--;
        }
        if(s1==Max)
        {
            if(Minnr==0)   Minnr = j;
            Maxnr = j;
        }
    }
    cout<<Max<<" "<<Minnr<<" "<<Maxnr;
    return 0;
}
```

#3663 ppdp

```
#include <iostream>
using namespace std;
int main()
{
    int n, d;S
    cin >> n;
    for (d=2; d<=n/2; d++)
        if (n%d==0) break;
    cout << d*d;
    return 0;
}
```

#4330 Divizori7

```
#include <iostream>
using namespace std;
int n, s = 0, ok = 0;
int main()
{
    cin >> n;
    for(int i = 2; i <= n; ++i)
    {
        if(n % i == 0 && ok == 0)
        {
            s = s + i;
            i++;
            ok = 1;
        }
        if(n % i == 0 && ok == 1)
        {
            s = s + i;
            break;
        }
    }
    cout << s;
    return 0;
}
```

#4329 Divizori6

```
#include <iostream>
using namespace std;
int n;
int main()
{
    cin >> n;
    int d, s = 0, ok = 0;
    for(d = 2; d * d <= n && ok != 1; d++)
        if(n % d == 0)
        {
            s += d;
            ok++;
        }
    cout << s + n / s;
    return 0;
}
```

#61 AfisareDivizoriComuni

```
#include <iostream>
using namespace std;
int main()
{
    int a,b,r;
    cin>>a>>b;
    while(b!=0)
    {
        r=a%b;
        a=b;
        b=r;
    }
    for(r=1;r<=a/2+1;r++)
        if(a%r==0)
            cout<<r<<" ";
    if(r<a)
        cout<<a;
    return 0;
}
```

#408 Divizorii Oglinditului

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

int main()
{
    int n , nn;
    cin >> n;
    nn = 0;
    while(n)
    {
      nn = 10 * nn + n % 10;
      n /= 10;
    }
    for(int d = 1; d * d < nn ; d++ )
        if(nn % d == 0)
            n += 2;
    if(d * d == nn)
        n++;   // 1
    cout << n;
    return 0;
}
```

#3272 SumDivOgl

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cin >> n;
    long long S = 0;
    for(int i = 1;i<=n;++i)
    {
        int x;
        cin >> x;
        int inv = 0;
        while(x)
       {
            inv = inv * 10 +x%10;
            x/=10;
        }
        for(int d = 1; d*d<=inv;++d)
        {
            if(inv%d==0)
            {
                S+=d;
                S+=inv/d;
            }
            if(d*d==inv)
                S-=d;
        }
    }
    cout << S;
    return 0;
}
```

#64 NumarPerfect

```
#include <iostream>
using namespace std;
int main()
{
    int n, d, s=0;
    cin>>n;
    for (d=1; d*d<=n; d++)
        if (n%d==0)
        {
            s=s+d;
            if (d*d!=n) s=s+n/d;
        }
    if (s==2*n)
      cout<<n<<" este perfect";
    else
      cout<<n<<" nu este perfect";
    return 0;
}
```

#445 PseudoPerfect

```
#include <iostream>
using namespace std;
int main ()
{
    int n;
    cin >> n;
    int s=0;
    for (int d = 1 ; d*d <= n;d++ )
    {
        if (n%d==0)
          s+=(d+n/d);
        if (d*d==n)
        s-=d;
    }
    if (s%n==0)
      cout << "DA";
    else
     | cout << "NU";
    return 0;
}
```

#1574 Prietene

```
#include <iostream>
using namespace std;
int main()
{
    int a, b, d, sa=0, sb=0;
    cin>>a>>b;
    for (d=1; d*d<=a; d++)
        if (a%d==0)
        {
            sa=sa+d;
            if (d*d!=a) sa=sa+a/d;
        }
    sa=sa-a;
    for (d=1; d*d<=b; d++)
        if (b%d==0)
        {
            sb=sb+d;
            if (d*d!=b) sb=sb+b/d;
        }
    sb=sb-b;
    if (a==sb && b==sa)
       cout<<"PRIETENE";
    else
       cout<<"NU SUNT PRIETENE";
    return 0;
}
```

#377 DifiMin

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
    int n, r;
    cin>>n;
    r=sqrt(n);
    while (n%r!=0)
        r--;
    cout<<r<<' '<<n/r;
    return 0;
}
```