

```
#include <iostream>
using namespace std;
int BMM(int a, int b, int c = 0) {
    if (c == 0)
        if (a > b)
            c = b/2;
        else
            c = a/2;
    if (a%c==0 and b%c==0)
        return c;
    else
        return BMM(a,b,c-1);
}
int main()
{
    int a,b;
    cin >> a >> b;
    cout << BMM(a,b);
}
```

```

#include <iostream>

using namespace std;

int main()
{
    int n;

    cin >> n;

    int* jadval = new int[n*2-1];

    for (int i = 0; i < n*2-1; i++) {
        jadval[i] = 0;
    }

    for (int j = 1; j <= n; j++) {
        for (int i = 1; i <= n*2-1; i++) {
            if (n-j < i and i < n+j)
                jadval[i] += 1;

            cout << " " << jadval[i];
        }

        cout << endl;
    }

    for (int j = n; j > 1; j--) {
        for (int i = 1; i <= n*2-1; i++) {
            if (n-j < i and i < n+j)
                jadval[i] -= 1;

            cout << " " << jadval[i];
        }

        cout << endl;
    }
}

```

```

#include <iostream>

using namespace std;

bool isPrimeNumbor(int a);

int GetPrimeNumbirs(int n) {

    int* a = new int[n];

    int num = 0;

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

        cin >> a[i];

        if (isPrimeNumbor(a[i]))

            num++;

    }

    return num;

}

bool isPrimeNumbor(int a) {

    if (a <= 1)

        return false;

    int b = 0;

    for (int i = 1; i < a/2; i++) {

        if (a%i == 0)

            b++;

    }

    if (b > 1)

        return false;

    else

        return true;

}

int main()

{

    int n;

    cin >> n;

    cout << GetPrimeNumbirs(n);

}

```

```

#include <iostream>
using namespace std;
int KamelNum(int a,int current = 6) {
    if (a <= 0)
        return current-2;
    int sum =0;
    for (int i = 1; i <= current/2; i++) {
        if (current%i == 0) {
            sum += i;
        }
    }
    if (sum == current)
        return KamelNum(a-1,current+2);
    else
        return KamelNum(a,current+2);
}

int main() {
    cout << KamelNum(1) << endl;
    cout << KamelNum(2) << endl;
    cout << KamelNum(3) << endl;
    cout << KamelNum(4) << endl;
}

```

```
#include <iostream>
using namespace std;
int loping(int n) {
    if (n==4)
        return 20;
    else if (n==3)
        return 8;
    else if (n==2)
        return 4;
    else if (n==1)
        return 3;
    else if (n==0)
        return 2;
    else
        return 2*loping(n-1) - 3*loping(n-2) + n*n;
} // -1 = 2/3
int main ()
{
    cout << loping(5);
} // man ziad in soal ro motevajeh nashodam vali saye
amo kardam
```

```
#include <iostream>

#include <string>

using namespace std;

int main ()
{
    string a;
    getline(cin,a);
    for (int i = 0; i < a.length (); i++)
    {
        if ((int) a[i] == 32 or i == 0)
            a[i + 1] = toupper(a[i+1]);
    }
    cout << a;
}
```

```
#include <iostream>
```

```
#include <math.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int n;
```

```
    cin >> n;
```

```
    int a[n][n];
```

```
    int counter = 0;
```

```
    int mul1 = 1;
```

```
    int mul2 = 1;
```

```
    for (int i = 0; i < n; i++) {
```

```
        for (int j = 0; j < n; j++) {
```

```
            counter++;
```

```
            a[i][j] = counter;
```

```
            if (i == j)
```

```
                mul1 *= a[i][j];
```

```
        }
```

```
        mul2 *= a[i][n-1-i];
```

```
    }
```

```
    cout << abs(mul1-mul2);
```

