Problem: 10783-odd Sum (UVa) -19'page
Submission date:2022-03-23 19:12:10

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

#define For(i, n) for (ll i = 0; i < n; i++)

#define rr return 0

inline void solve();

#define fast ios_base::sync_with_stdio(false);cin.tie(0);cout.tie(0);

int main(){

    fast;solve();rr;

}

inline void solve(){

    ll t;

    cin>>t;

    For(i,t){

    ll a,b,sum=0,p=1;

    cin>>a>>b;
```

```
    for(ll i=a;i<=b;i++)if(i%2!=0)sum+=i;

    cout << "Case " << i+1 << ": " << sum << nl;

    }

}
```

Problem: 10696 - f91 (UVa) -19page
Submission date:2022-03-18 13:52:09

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

#define For(i, n) for (ll i = 0; i < n; i++)

inline void solve();

#define fast ios_base::sync_with_stdio(false);cin.tie(0);cout.tie(0);

int main(){

    //fast; solve();

}

void solve(){
```

```
    ll n;

    while(cin>>n){

        if(n==0) break;

        if(n<=100)cout<<"f91("<<n<<") = "<<91<<nl;

        if(n>=101)cout<<"f91("<<n<<") = "<<n-10<<nl;

    }

}
```

Problem: 10699 - Count the factors (UVa) - 20'page
Submission date:2022-03-17 16:28:54

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

#define For(i, n) for (ll i = 0; i < n; i++)

inline void solve();

int main(){

    solve();

}
```

```
Inline void solve(){

    ll n;

    while (cin >> n){

        if (n == 0)break;

        cout << n << " : ";

        ll ans = 0;

        for (ll i = 2; i <= sqrt(n); i++){

            if (n % i == 0)ans++;

            while (n % i == 0)n = n / i;

        }

        if (n != 1)ans++;

        cout << ans << nl;

    }

}
```

Problem: 12289 – One-two-three (UVa)-20page
Submission date:2022-03-23 03:24:26

```
#include <bits/stdc++.h>

using namespace std;

int main(){
```

```cpp
    int t;cin>>t;

    while(t--){

    string str; cin >> str;

    int one = 0, two = 0;

 if (str.size() == 5)

  cout << 3 << nl;

 else{

  for (int i = 0; i < str.size(); i++){

     if (str[0] == 'o' || str[i] == 'n' || str[i] == 'e')one++;

     if (str[i] == 't' || str[i] == 'w' || str[i] == 'o')two++;

  }

  if (one > two)cout << 1 << nl;

  else cout << 2 << nl;

 }

}
```

Problem: 10591 - Happy Number (UVa)-21' page
Submission date:2022-03-16 12:24:06

#include <bits/stdc++.h>

```
using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    ll t; cin>>t;

    while(t--){

        ll n, m, p = 1;        cin >> n;

        m = n;

        set<ll> Set;

        while (1){

            Set.insert(m);

            ll sum = 0;

            while (m){

                sum += (m % 10) * (m % 10);

                m = m / 10;}

        if (sum == 1){

            printf("Case #%d: %d is a Happy number.\n", t, n);

            t++; break;}

        if (Set.find(sum) != Set.end()){
```

```
        printf("Case #%d: %d is an Unhappy number.¥n", t, n);

        t++; break; }

    m = sum;}

}
```

Problem: 10469-To Carry or not to carry (UVa)-21 page. Submission date:2022-03-16 11:42:31

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll n,m;

    while(cin>>n>>m){

        ll c=n^m;

        cout<<c<<nl;

    }

}
```

Problem: 10370-Above Average (UVa)-22' page. Submission date:2022-03-23 17:35:03

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll n,m;

    double sum,average,avobe,a[1000],count;

    while(scanf("%d",&n)==1){

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

            sum=0;

            scanf("%d",&m);

            for(ll j=0;j<m;j++){

                scanf("%lf",&a[j]);

                sum+=a[j];

            }

        average=(double)(sum/m),count=0;

        for(ll j=0;j<m;j++)if(average<a[j])count++;

        avobe=(double)(100*count/m);

        printf("%.3lf%",avobe);
```

```
            cout<<"%¥n";

        }

}

}
```

Problem: 10346-Peter's Smokes (UVa)-22 page.
Submission date:2022-02-22 20:10:14

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll n,k;

    ll ans,r,d;

    while(scanf("%lld%lld",&n,&k)==2){

        ans=n;

        for(;n>=k;){

            d=n/k;

            r=n%k;
```

```
        ans=ans+d;

        n=d+r;

    }

    cout<<ans<<endl;

  }

}
```

Problem: 10327-Flip Sort (Uva)-24' page.
Submission date:2022-02-21 16:09:35

```
#include <bits/stdc++.h>

using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    int n,arr[1000];

    while(scanf("%d",&n)==1){

        for(int i = 0;i<n;++i)cin>>arr[i];

        ll cunt= 0;

        for(int i = 1;i<n;++i)
```

```
        for(int j = 0;j<i;++j)

            if(arr[j]>arr[i])cunt++;



        cout<<"Minimum exchange operations : "<<cunt<<nl;

    }

}
```

Problem: 10235-Simply Emirp (Uva)-24 page.
Submission date:2022-02-20 09:59:46

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

bool prime(ll n){

    if(n<2) return false;

    for(ll i=2; i*i<=n; i++)

        if(n%i==0) return false;

    return true;

}
```

```cpp
ll rev(ll n){

    ll b=0;

    while(n!=0){

        b = b*10 + n%10;

        n/=10;

    }

    return b;

}

int main(){

    ll n;

    while(cin>>n){

        if(prime(n)==false) cout<<n<<" is not prime.¥n";

        else{

            if(prime(rev(n))==true && rev(n)!=n) cout<<n<<" is emirp.¥n";

            else cout<<n<<" is prime.¥n";

        }

    }

}
```

Problem: 10222-Decode the mad man (UVa)-25' page. Submission date:2022-02-18 12:08:27

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main()
{
    string str;
    char aa[47] = {'q', 'w', 'e', 'r', 't', 'y', 'u', 'i', 'o', 'p', 91, 93, 92,
                   'a', 's', 'd', 'f', 'g', 'h', 'j', 'k', 'l', 59, 39,
                   'z', 'x', 'c', 'v', 'b', 'n', 'm', 44, 46, 47,
                   '`', '1', '2', '3', '4', '5', '6', '7', '8', '9', '0', 45, 61};
    while (getline(cin, str)){
        ll len = str.size();
        for (int i = 0; i < len; i++){
            if (str[i] >= 65 && str[i] <= 90)
                str[i] = tolower(str[i]);
        }
```

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

        if (str[i] == ' ' || str[i] == '¥n')

            cout << str[i];

        else{

            for (int j = 1; j < 47; j++){

                if (str[i] == aa[j]){

                    cout << aa[j - 2];

                    break;

                }

            }

        }

    }

    cout << nl;

  }

}
```

Problem: 10082-WERTYU (UVa)-25 page.
Submission date:2022-02-17 12:59:00

#include <bits/stdc++.h>

```cpp
using namespace std;

#define nl '¥n'

typedef long long int ll;

char solve(char c){

    switch (c){

    case '1':

        return '`';

    case '2':

        return '1';

    case '3':

        return '2';

    case '4':

        return '3';

    case '5':

        return '4';

    case '6':

        return '5';

    case '7':

        return '6';
```

```
case '8':

    return '7';

case '9':

    return '8';

case '0':

    return '9';

case '-':

    return '0';

case '=':

    return '-';

case 'W':

    return 'Q';

case 'E':

    return 'W';

case 'R':

    return 'E';

case 'T':

    return 'R';

case 'Y':
```

```
        return 'T';

    case 'U':

        return 'Y';

    case 'I':

        return 'U';

    case 'O':

        return 'I';

    case 'P':

        return 'O';

    case '[':

        return 'P';

    case ']':

        return '[';

    case '¥¥':

        return ']';

    case 'S':

        return 'A';

    case 'D':

        return 'S';
```

```
case 'F':

    return 'D';

case 'G':

    return 'F';

case 'H':

    return 'G';

case 'J':

    return 'H';

case 'K':

    return 'J';

case 'L':

    return 'K';

case ';':

    return 'L';

case '¥'':

    return ';';

case 'X':

    return 'Z';

case 'C':
```

```
        return 'X';

    case 'V':

        return 'C';

    case 'B':

        return 'V';

    case 'N':

        return 'B';

    case 'M':

        return 'N';

    case ',':

        return 'M';

    case '.':

        return ',';

    case '/':

        return '.';

    case ' ':

        return ' ';

    case '¥n':

        return '¥n';
```

```
    }

    return ' ';

}

int main(){

    char c;

    while (scanf("%c", &c) != EOF){

        printf("%c", solve(c));

    }

}
```

Problem: 100-The 3n+1 Problem (UVa)-26' page. Submission date:2022-03-22 16:58:01

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    int n,m,j,cunt,ans;

    while(scanf("%d %d", &n, &m)!=EOF){
```

```
        ans=0;

        cout<<n<<" "<<m<<" ";

        if(n>m) swap(n,m);

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

            cunt=1,j=i;

            while(j > 1){

                if(j % 2==0)j = j/2;

                else j = (3*j)+1;

                cunt++;

            }

            if(cunt>=ans) ans=cunt;

        }

    cout<<ans<<nl;

  }

}
```

Problem: 12578-10:6:2 (UVa)-26 page.
Submission date:2022-04-12 17:38:32

```
#include <stdio.h>
```

```
int main(){

    int t;

    scanf("%d", &t);

    while (t--){

        int l;

        scanf("%d", &l);

        double red = (3.14159265358979323846264 * l * l) / 25.0;

        double green = ((6 * l * l) / 10.0) - red;

        printf("%0.2lf %0.2lf¥n", red, green);

    }

}
```

Problem: 10071-Back to High School Physics (UVa)-27' page.
Submission date:2022-02-17 12:42:40

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){
```

```
    ll v, t;

    while (cin >> v >> t){

        cout << 2 * v * t << nl;

    }

}
```

Problem: 10038-Jolly Jumpers (UVa)-27 page. Submission date:2022-02-17 11:06:25

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    int n, arr[3001];

    while(cin>>n) {

        for(int i = 0; i < n; i++)cin>>arr[i];

        int m[3001] = {0}, p = 0;

        for(int i = 1; i < n; i++) {

            if(abs(arr[i] - arr[i-1]) < n)
```

```
        m[abs(arr[i] - arr[i-1])]++;

    }

    for(int i = 1; i < n; i++)

        if(m[i] == 0) p = 1;

    if(p!=0)cout<<"Not jolly¥n";

    else cout<<"Jolly¥n";

    }

}
```

Problem: 10035-Primary Arithmetic (Uva)-28' page. Submission date:2022-02-16 17:22:18

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll a, b;

    while (cin >> a >> b){

        if (a == 0 && b == 0)
```

```
        return 0;

    ll sum = 0, cunt = 0;

    while (a != 0 || b != 0){

        sum = (a % 10 + b % 10 + sum) / 10;

        a = a / 10;

        b = b / 10;

        if (sum != 0)

            cunt++;

    }

    if (cunt == 0) cout << "No carry operation.¥n";

    else if (cunt == 1) cout << cunt << " carry operation.¥n";

    else cout << cunt << " carry operations.¥n";

    }

}
```

Problem: 913-Joana and the odd Numbers (UVa)-28 page.

Submission date:2022-02-16 09:07:11

#include <bits/stdc++.h>

```cpp
using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll n;

    while(cin>>n){

        n=n/2+1;

        n=n*n;

        ll ans=6*n-9;

        cout<<ans<<nl;

    }

}
```

Problem: 900-Brick wall patterns (UVa)-29' page. Submission date:2022-02-15 17:11:04

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;
```

```cpp
int main(){

    ll cunt[51];

    cunt[0] = 1;

    cunt[1] = 2;

    for (int i = 2; i < 50; i++)

        cunt[i] = cunt[i - 1] + cunt[i - 2];

    ll n;

    while (cin >> n && n != 0)

        cout << cunt[n - 1] << '\n';

}
```

Problem: 729-The Hamming Distance Problem (UVa)-29 page. Submission date:2022-02-15 09:27:06

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    ll t;
```

```
    cin>>t;

    while(t--){

        ll n,one;

        cin>>n>>one;

        ll arr[n];

        for(int i=0; i<n-one; i++)arr[i]=0;

        for(int i=n-one; i<n; i++)arr[i]=1;

        do{

            for(int i=0; i<n; i++)cout<<arr[i];

            cout<<nl;

        }

        while(next_permutation(arr, arr+n));

        if(t > 0)cout<<nl;

    }

}
```

Problem: 579-Clock Hands (UVa)-30' page.
Submission date:2022-02-13 16:05:18

#include <bits/stdc++.h>

using namespace std;

```
#define nl '¥n'

typedef long long int ll;

int main(){

    ll h,m;

    while(cin>>h && h!=0){

        char c;

        cin>>c;

        cin>>m;

        h=h*60;

        m=m*11;

        double ans=abs(h-m);

        ans=ans/2;

        if(ans>180)ans=360-ans;

        cout<<fixed<<setprecision(3)<<ans<<nl;

    }

}
```

Problem: 575-Skew Binary (UVa)-30 page.
Submission date:2022-02-12 15:35:30

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    string str;

    while(cin>>str && str!="0"){

        ll len=str.size();

        ll b=1,ans=0;

        for(ll i=len-1;i>=0;i--){

            ans=ans+(str[i]-'0')*(pow(2,b)-1);

            b++;

        }

        cout<<ans<<nl;

    }

}
```

Problem: 541-Erorr Correction (UVa)-31' page.
Submission date:2022-02-11 16:55:09

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll n;

    while (1){

        cin >> n;

        if (n == 0)return 0;

        ll max[n][n];

        for (ll i = 0; i < n; i++)

            for (ll j = 0; j < n; j++)

                cin >> max[i][j];

        ll sum = 0, r = 0, c = 0;

        ll row, col;

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

            sum = 0;

            for (ll j = 0; j < n; j++)sum += max[i][j];

            if (sum % 2 != 0){
```

```
        r++;

        row = i;

    }

}

for (ll j = 0; j < n; j++){

    sum = 0;

    for (ll i = 0; i < n; i++)

        sum += max[i][j];

    if (sum % 2 != 0){

        c++;

        col = j;

    }

}

if (r == 0 && c == 0)

    cout << "OK" << endl;

if (r == 1 && c == 1)

    cout << "Change bit (" << row + 1 << "," << col + 1 << ")" <<
nl;

if (r > 1 || c > 1)
```

```
            cout << "Corrupt" << nl;

    }

}
```

Problem: 490-Rotating Sentences (UVa)-31 page. Submission date:2022-02-10 15:38:06

```
#include <bits/stdc++.h>

using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    string str[105];

    ll p = 0, k = 0;

    while (getline(cin, str[p])){

        if (str[p].size() > k) k = str[p].size();

        p++;

    }

    for (int j = 0; j < k; j++){

        for (int i = p - 1; i >= 0; i--){
```

```
        if (str[i].size() > j) cout << str[i][j];

        else cout << ' ';

    }

    cout << nl;

  }

}
```

Problem: 488-Triangle Wave (UVa)-32' page. Submission date:2022-02-09 8:39:13

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main() {

    ll t, f, a;

    cin>>t;

    while (t--) {

        cin>>a>>f;

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

```
        for (int j = 1; j <= a; j++) {

            for (int k = 0; k < j; k++)cout<<j;

            cout<<nl;

        }

        for (int j = a - 1; j >= 1; j--) {

            for (int k = 0; k < j; k++)cout<<j;

            cout<<nl;

        }

        if (i != f - 1)cout<<nl;

    }

    if(t)cout<<nl;

  }

}
```

Problem: 458-The Decoder (UVa)-32 page.
Submission date:2022-02-08 08:48:51

```
#include<stdio.h>

int main(){

 char s[1000];
```

```
 int i;

 while(gets(s)) {

  for(i = 0; s[i]; i++)printf("%c", s[i]-7);

  puts("");

   }

   return 0;

}
```

Problem: 446- Kibbles "n" Bits "n" Bits "n" Bits (UVa)-33' page. Submission date:2022-02-08 07:19:15

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

   ll t, hex1, hex2, ans;

   char c;

   cin >> t;
```

```
    while (t--){

        cin >>hex1 >> c >> hex2;

        if (c == '+') ans = hex1 + hex2;

        else ans = hex1 - hex2;

        cout << bitset<13>(hex1) << " " << c << " " << bitset<13>(hex2)
<< " = " << ans << nl;

    }

}
```

Problem: 440-Eeny Meeny Moo (UVa)-33 page.
Submission date:2022-02-06 07:21:15

```
#include <bits/stdc++.h>

using namespace std;

#define nl        '¥n'

typedef long long int ll;

int abc(int n,int m){

    ll cunt=0;

    for(int i=2;i<n;i++)

        cunt=(cunt+m)%i;

    return cunt;
```

```
}

int main(){

    ll n;

    while(cin>>n){

        if(n==0)return 0;

        for(int i=1;;i++){

            if(abc(n,i)==0){

                cout<<i<<nl;

                break;

            }

        }

    }

}
```

Problem: 401-Palindromes (UVa)-34' page.
Submission date:2022-02-03 11:23:39

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;
```

```cpp
int main(){

    string s="ABCDEFGHIJKLMNOPQRSTUVWXYZ123456789";

    string c="A   3  HIL JM O   2TUVWXY51SE Z  8 ";

    map<char,char>mp;

    for(int i=0;i<s.size();i++)

        mp[s[i]]=c[i];

    string str;

    while(cin>>str){

        string b="";

        string rev = string(str.rbegin(),str.rend());

        for(int i=0;i<rev.size();i++)b=b+mp[rev[i]];

        if(b==str && rev==str)

            cout<<str<<" -- is a mirrored palindrome."<<nl<<nl;

        else if(b==str)

            cout<<str<<" -- is a mirrored string."<<nl<<nl;

        else if(rev==str)

            cout<<str<<" -- is a regular palindrome."<<nl<<nl;

        else cout<<str<<" -- is not a palindrome."<<nl<<nl;

    }
```

}

Problem: 146-ID Codes (UVa)-34 page.
Submission date:2022-02-02 17:29:12

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '\n'

typedef long long int ll;

int main(){

    string str;

    while(cin>>str){

        if(str=="#")return 0;

        ll len=str.size();

        if(next_permutation(str.begin(),str.end()))

                cout<<str<<nl;

        else cout<<"No Successor\n";

    }

}
```

Problem: 136-Ugly Number (UVa)-35' page.
Submission date:2022-02-02 17:09:47

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

int main(){

    cout<<"The 1500'th ugly number is 859963392.¥n";

}
```

Problem: 119-Greedy Gift Givers (UVa)-35 page.
Submission date:2022-02-02 10:34:10

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

#define pb(x) push_back(x)

int main(){

    ll n, money, a;

    string name, frnd;

    vector<string> vec;
```

```
ll cunt = 0;

while (cin >> n){

    vec.clear();

    map<string, ll> mp;

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

        cin >> name;

        mp[name] = 0;

        vec.pb(name);

    }

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

        cin >> name >> money >> a;

        if (a > 0){

            mp[name] = mp[name] + money % a;

            mp[name] = mp[name] - money;

            for (ll j = 0; j < a; j++){

                cin >> frnd;

                mp[frnd] = mp[frnd] + money / a;

            }

        }
```

```
        }

        if (cunt > 0) cout << endl;

        for (int i = 0; i < vec.size(); i++)

            cout << vec[i] << " " << mp[vec[i]] <<nl;

        cunt++;

    }

}
```

Problem: 113-Power of Cryptography (UVa)-36' page. Submission date:2022-01-31 14:03:10

```
#include <bits/stdc++.h>

using namespace std;

#include<stdio.h>

int main(){

    double a,b;

    while(cin>>a>>b){

        double c=pow(b,(1/a));

        printf("%0.0lf¥n",c);

    }
```

}

Problem: 10110-Light, more-Light (UVa)-36 page. Submission date:2022-04-14 16:11:21

```cpp
#include <bits/stdc++.h>

using namespace std;

#define nl         '¥n'

typedef long long int ll;

int main(){

    ll n = 1;
    while (cin >> n && n != 0){

        ll sq = sqrt(n);

        cout << (sq * sq == n ? "yes¥n" : "no¥n");

    }

}
```

Problem: 10420-List of Conquests (UVa)-37' page. Submission date:2022-01-22 06:25:30

```cpp
#include <bits/stdc++.h>

using namespace std;
```

```cpp
#define nl '¥n'

typedef long long int ll;

int main(){

    ll n;

    cin>>n;

    string str[n];

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

        cin>>str[i];

        string name;

        getline(cin,name);

    }

    sort(str,str+n);

    ll cunt=1;

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

        if(str[i]!=str[i+1]){

            cout<<str[i]<<" "<<cunt<<nl;

            cunt=1;

            continue;

        }
```

```
        cunt++;

    }

}
```

Problem: 494-Kindergartent Counting Game (UVa)-37 page.
Submission date:2022-01-27 06:00:08

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll cunt=0;

    string str;

    while(getline(cin,str)){

        for(int i=0;i<str.size();i++)

            if(isalpha(str[i]) && !isalpha(str[i+1]))cunt++;

        cout<<cunt<<nl;

        cunt=0;

    }
```

```
}
```

Problem: 272-Tex Quotes (UVa)-38 page.
Submission date:2022-01-26 14:08:41

```
#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    char ch;

    ll cunt = 0;

    while(scanf("%c",&ch) == 1){

        if(ch == '"'){

            cunt++;

            if(cunt%2!=0)cout<<"``";

            else cout<<"''";

        }

        else printf("%c",ch);

    }
```

}

Problem: 11498-Division of Nlogonia (UVa)-38 page. Submission date:2022-01-26 13:48:04

#include <bits/stdc++.h>

using namespace std;

#define nl '¥n'

typedef long long int ll;

int main(){

    ll t;

    while(cin>>t && t!=0){

        ll a,b;

        cin>>a>>b;

        while(t--){

            ll x,y;

            cin>>x>>y;

            if(x==a||y==b)cout<<"divisa"<<nl;

            else if(x>a && y>b)cout<<"NE"<<nl;

            else if(x<a && y>b)cout<<"NO"<<nl;

```
        else if(x<a && y<b)cout<<"SO"<<nl;

        else if(x>a && y<b)cout<<"SE"<<nl;

    }

  }

}
```