Bài 1:

#include <bits/stdc++.h>

using namespace std;

int res=0,n;

bool cp(int m)

{ int i=(int)sqrt(m);

if(i\*i==m) return true;

else return false;

}

int main()

{

ios\_base::sync\_with\_stdio(0);

cin.tie(0);cout.tie(0);

freopen("SUMOF.INP","r",stdin);

freopen("SUMOF.OUT","w",stdout);

cin>>n;

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

for(int j=i; j<sqrt(n-i\*i);j++)

if(cp(n-(i\*i+j\*j))&&(n-(i\*i+j\*j))>=j\*j) res++;

cout<<res;

return 0;

}

Bài 2:

#include <bits/stdc++.h>

using namespace std;

using namespace chrono;

#define int long long

#define float double

#define elif else if

bool check(int x){

if (x == 1) return 0;

for (int i = 2; i <= sqrt(x); i++){

if (x % i == 0) return 0;

}

return 1;

}

bool ret(int x){

while (x > 0){

if (check(x)) return 0;

x /= 10;

}

return 1;

}

signed main()

{

ios\_base::sync\_with\_stdio(NULL);

cin.tie(NULL);

cout.tie(NULL);

int a, b, c;

cin >> a >> b >> c;

cout << ret(a) << endl

<< ret(b) << endl

<< ret(c);

return 0;

}

Bài 3:

#include <bits/stdc++.h>

using namespace std;

#define int long long

signed main() {

ios\_base::sync\_with\_stdio(NULL);

cin.tie(NULL);

cout.tie(NULL);

string s;

getline(cin, s);

int i = 0;

int l = 0;

while (i < (int) s.length()) {

if (isdigit(s[i])){

int k = 0;

while (isdigit(s[i])){

k++;

i++;

}

l = max(l,k);

}

i++;

}

cout << l;

return 0;

}

Bài 4:

DÃY SỐ

#include<iostream>

using namespace std;

long long n,a[1000001],b[1000000],tong,i,x;

int main()

{

cin>>n;

fill(b,b+n+1,0);

tong=0;

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

{

cin>>a[i];

b[a[i]]++;

}

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

if (b[a[i]]>1)

{

x=b[a[i]];

tong=tong+x\*(x-1)/2;

b[a[i]]=0;

}

cout<<n\*(n-1)/2-tong;

return 0;

}

Bài 5:

#include <bits/stdc++.h>

using namespace std;

#define int long long

#define float double

#define elif else if

int lightOn(int a, int b)

{

int s = sqrt(b);

int s1 = sqrt(a);

if (s1 \* s1 < a)

s1++;

if (s1 > s)

return 0;

return (s - s1) + 1;

}

signed main()

{

ios\_base::sync\_with\_stdio(NULL);

cin.tie(NULL);

cout.tie(NULL);

int a, b, n;

cin >> a >> b >> n;

cout << lightOn(a, b);

return 0;

}

Bài 6:

#include <bits/stdc++.h>

#define int long long

#define pb push\_back

#define ppb pop\_back

#define fr first

#define sc second

#define mod int(1e9 + 7)

#define all(v) v.begin(), v.end()

#define rall(v) v.rbegin(),v.rend()

#define sz(a) (int)a.size()

#define check\_time cerr << "\n\n ---> " << (double)clock() / CLOCKS\_PER\_SEC \* 1000 << " ms <--- \n\n\n";

using namespace std;

void solve(){

int n;

cin >> n;

vector <pair <int, int>> a(n + 1);

vector <int> dp(n + 1, 1);

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

cin >> a[i].fr >>a[i].sc;

}

sort(a.begin() + 1, a.begin() + n + 1);

int ans = 0;

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

int mx = 0;

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

if(a[i].fr >= a[j].sc) mx = max(mx, dp[j]);

}

dp[i] += mx;

ans = max(ans, dp[i]);

}

cout << ans;

}

signed main()

{

ios\_base::sync\_with\_stdio(false);

cin.tie(NULL);

int n = 1;

freopen("BAI4.inp", "r", stdin);

freopen("BAI4.out", "w", stdout);

// cout << 1; return 1;

// cin >> n;

while(n){

solve();

n --;

cout << "\n";

}

check\_time;

}