**Задача A**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define pb push\_back

#define INF 1000000007

#define s second

#define f first

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

**using** **namespace** **std**;

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

ll **max**(ll a,ll b){

**if** (a>b) **return** a;

**return** b;

}

**void** **solve**(){

**set**<**int**> sx,sy;

**vector**<**int**> x,y;

**int** n;**cin**>>n;

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

**int** x1,y1;**cin**>>x1>>y1;

sx.insert(x1);

sy.insert(y1);

x.pb(x1);

y.pb(y1);

}

//for (auto c: sx) x.pb(c);

//for (auto c: sy) y.pb(c);

**int** lx,ly;

sort(x.begin(),x.end());

sort(y.begin(),y.end());

**if** (x.size()%2==1){

lx=1;

} **else** {

lx=x[x.size()/2]-x[x.size()/2-1]+1;

}

**if** (y.size()%2==1){

ly=1;

} **else** {

ly=y[y.size()/2]-y[y.size()/2-1]+1;

}

**cout**<<lx\*ly;

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}

**Задача B**

#include <bits/stdc++.h>

#define int long long

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<"x:"<<x<<endl;

#else

#define debug(x)

#endif

**using** **namespace** **std**;

**void** **solve**(){

**int** m;**cin**>>m;

**cout**<<(m+4)/5;

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}

**Задача C**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<"x:"<<x<<endl;

#else

#define debug(x)

#endif

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

**using** **namespace** **std**;

**void** **solve**(){

**int** n;

**cin**>>n;

**vector**<**int**> **a**(n);

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

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

sort(a.begin(),a.end());

// for (auto c: a) cout<<c<<" ";

//cout<<endl;

dp[1]=0;

dp[2]=a[1]-a[0];

**for** (**int** i=3; i<=n; i++){

dp[i]=dp[i-1]+a[i-1]-a[i-2];

**if** (i>3) dp[i]=min(dp[i],dp[i-2]+a[i-1]-a[i-2]);

}

// for (int i=0; i<n; i++) cout<<dp[i+1]<<" ";

// cout<<endl;

**cout**<<dp[n];

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}

**Задача D**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define INF 1000000007

#define s second

#define f first

#define pb push\_back

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

**using** **namespace** **std**;

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

ll **max**(ll a,ll b){

**if** (a>b) **return** a;

**return** b;

}

**const** **int** spec\_mod=1000000;

**vector**<**int**> good;

**set**<**int**> **ms\_t**;

**vector**<**vector**<**int**> > gr;

**void** **do\_it**(**int** u){

**int** z=rand()%2;

**int** d=gr[u][z];

**for** (**auto** to: gr[d]){

**if** (good[to]==1){

good[to]=0;

**ms\_t**.insert(to);

} **else** {

good[to]=1;

**ms\_t**.erase(to);

}

}

}

**void** **solve**(){

**int** n,m;

**cin**>>n>>m;

good=**vector**<**int**> (n);

gr=**vector**<**vector**<**int**> > (n+m);

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

**cin**>>good[i];

**if** (good[i]==0){

**ms\_t**.insert(i);

}

}

**for** (**int** i=0; i<m; i++){

**int** k;**cin**>>k;

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

**int** v;**cin**>>v;v--;

gr[v].pb(i+n);

gr[i+n].pb(v);

}

}

**if** (**ms\_t**.size()==0){

**cout**<<"WORK";

**return**;

}

**int** cnt=0;

**while** (cnt<100000){

**if** (**ms\_t**.size()==0){

**cout**<<"WORK";

**exit**(0);

}

**int** x=\*(**ms\_t**.begin());

do\_it(x);

cnt++;

}

**cout**<<"WEEKEND";

}

**signed** **main**() {

**int** t=1;

//cin>>t;

srand(time(NULL));

**while** (t--){

solve();

}

**return** 0;

}

**Задача E**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define pb push\_back

#define INF 1000000007

#define s second

#define f first

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

**using** **namespace** **std**;

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

ll **max**(ll a,ll b){

**if** (a>b) **return** a;

**return** b;

}

**const** **int** spec\_mod=1000000;

**void** **solve**(){

**string** s;

**cin**>>s;

**int** k,n=s.size(),pos=0;

**vector**<**int**> ans;

**cin**>>k;

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

**for** (**int** j=0; j<10; j++){

**int** cnt=0,fl=1;

**for** (**int** l=pos; l<n; l++){

**int** om=s[l]-48;

**if** (om==j){

//fl=1;

**break**;

} **else** {

cnt++;

}

**if** (cnt>k) **break**;

}

**if** (k-cnt>=0&&fl){

k -=cnt;

**for** (**int** l=pos; l<pos+cnt; l++){

ans.pb(l);

}

pos +=cnt+1;

**break**;

}

//debug(cnt);

}

debug(pos);

}

**int** l=n-1;

**while** (ans.size()<k){

ans.pb(l);

l--;

}

sort(ans.begin(),ans.end());

**for** (**auto** c: ans) **cout**<<c+1<<" ";

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}

**Задача F**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define INF 1000000007

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

**using** **namespace** **std**;

**const** **int** spec\_mod=1000000;

**void** **solve\_test**(**int** a){

**int** fl=0;

**vector**<**int**> **used**(101);

**int** copy\_a=a,ans1=INF,ans2=0;

**for** (**int** i=1; i<10000; i++){

**if** (a>=10) fl=1;

**int** z1=a%100/10,z2=a%10;

**int** z=min(z1,z2)\*10+max(z2,z1);

**if** (used[z]!=0&&fl){

**if** (used[z]<ans1){

ans1=used[z];

ans2=i;

}

}

**if** (fl) used[z]=i;

a \*=copy\_a;

a=a%spec\_mod;

}

**cout**<<copy\_a<<" ="<<" "<<ans1<<" "<<ans2<<**endl**;

}

**void** **solve\_good**(){

**int** a,fl=0;

**cin**>>a;**vector**<**int**> **used**(101);

**int** copy\_a=a,ans1=INF,ans2=0;

**for** (**int** i=1; i<10000; i++){

**if** (a>=10) fl=1;

**int** z1=a%100/10,z2=a%10;

**int** z=min(z1,z2)\*10+max(z2,z1);

**if** (used[z]!=0&&fl){

**if** (used[z]<ans1){

ans1=used[z];

ans2=i;

} **else** {

**if** (used[z]==ans1){

ans1=min(ans1,i);

}

}

}

**if** (fl) used[z]=i;

a \*=copy\_a;

a=a%spec\_mod;

}

**cout**<<ans1<<" "<<ans2;

}

**signed** **main**() {

**int** t=1;

//for (int i=500; i<=600; i++){

//solve\_test(i);

// }

//cin>>t;

**while** (t--){

solve\_good();

}

**return** 0;

}

**Задача G**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define INF 1000000007

#define s second

#define f first

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

**using** **namespace** **std**;

**const** **int** spec\_mod=1000000;

**void** **solve**(){

**map**<**char**,**int**> cnt;

**string** s;

**cin**>>s;

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

cnt[s[i]]++;

}

**int** ans=0;

**for** (**auto** c: cnt){

**if** (c.s==1) ans++;

}

**cout**<<ans;

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}

**Задача H**

#include <bits/stdc++.h>

#define int long long

#define ll long long

#define INF 1000000007

#define s second

#define f first

#ifndef ONLINE\_JUDGE

#define debug(x) cerr<<(#x)<<":"<<x<<endl;

#else

#define debug(x)

#endif

ll **min**(ll a,ll b){

**if** (a<b) **return** a;

**return** b;

}

ll **max**(ll a,ll b){

**if** (a>b) **return** a;

**return** b;

}

**using** **namespace** **std**;

**const** **int** spec\_mod=1000000;

**void** **solve**(){

**int** n,m,mx,mn;**cin**>>n>>m;

**if** (n>m){

mx=m;

} **else** {

mx=n;

}

**if** (n<m){

mn=n;

} **else** {

mn=m;

}

mn=mn/2+mn%2;

**cout**<<mn<<" "<<mx;

}

**signed** **main**() {

**int** t=1;

//cin>>t;

**while** (t--){

solve();

}

**return** 0;

}