```
//Gold and Sand
#include<bits/stdc++.h>
using namespace std;
int main()
    int t, sum, sum1, i;
    string s;
    cin>>t;
    while (t--)
        cin>>s;
        int c=0;
        stack<char>ss;
        for(i=0;
i<s.size(); i++)
        {
if(s[i]=='.')
continue;
if(s[i]=='<')
             {
ss.push(s[i]);
             else
if(s[i] == '>' & &!ss.empty
())
ss.pop();
                 C++;
        cout << c << endl;
    }
//Find Target Indices
#include<bits/stdc++.h>
using namespace std;
int main()
    int t,n,k;
    cin>>t;
    while (t--)
        cin>>n;
        int a[n+8];
        for(int
i=0;i<n;i++)
             cin>>a[i];
        sort(a,a+n);
        cin>>k;
        if
(binary search(a, a +n,
k))
```

```
for(int
i=0; i<n; i++)
if(a[i]==k)
cout<<i<" ";
              }
             cout << endl;
         else
             cout<<"no
data"<<endl;</pre>
        }
    }
//Collect ID from
Google Classroom
#include < bits / stdc++.h>
using namespace std;
int main()
{
    int t;
    cin>>t;
    while (t--)
         string s,s1;
         char c;
         cin>>c;
         getline(cin,s);
         int k=0;
         if (c== 'C')
              k=1;
         for(int i=0;
i < s.size(); i++)</pre>
if(s[i] == 'C')
                  k=1;
if (s[i]>='0'&&s[i]<='9'</pre>
& & k==1)
s1.push back(s[i]);
if(s1.size() == 6)
break;
```

if(!s1.empty())

```
cout<<"C"<<s1<<endl;
    }
//Average placed in the
middle
#include<bits/stdc++.h>
using namespace std;
int main()
    long long n,i,j;
    float sum=0, sum1=0;
    cin>>n;
    int a[n+5];
    for (i=0; i<n; i++)</pre>
        cin>>a[i];
        sum=sum+a[i];
sum1=floor(sum/floor(n)
);
    int k = ((n/2) + 1);
    for (i=0; i<n; i++)</pre>
        if(i==k-1)
if(a[i]==sum1)
cout<<"Yes"<<endl;
             else
cout << "No" << endl;
```

```
// Admission Test
#include<bits/stdc++.h>
using namespace std;
struct Admission{
   char ch;
   int num;
   string s;
};

int main(){
   while(1)
   {
   int n;
      cin>>n;
   if(n==0)
      break;
```

```
vector<Admission> v(n);
                                                vector \langle int \rangle ex[105500];
                                                                                                int main()
                                                vector < int > leaf;
     for(int i=0; i<n; i++)
                                                int dist[105000];
       Admission a:
                                                int vis[100500];
                                                                                                  #ifndef ONLINE_JUDGE
       cin>>a.ch>>a.num>>a.s;
                                                void bfs(int start)
                                                                                                  File
       v[i]=a;
                                                                                                  #endif
                                                 queue < int > qu;
     int sub=0;
                                                                                                  testCase
                                                 qu.push(start);
     int t=0,p=0;
                                                 dist[start] = 0;
     for(int i=0; i< n; i++)
                                                 vis[start] = 1;
                                                                                                   //cout << "Case " << i << ": ";
                                                  while (!qu.empty())
       if(v[i].s=="wrong"){
                                                                                                    solve();
          sub+=2;
                                                   int node = qu.front();
                                                   qu.pop();
       else if(v[i].s=="right"){
                                                   for(auto i:graph[node])
                                                                                                  //solve();
         t++;
          p+=v[i].num;
                                                    if(!vis[i])
                                                                                                LCM TRIPLETS
                                                     dist[i] = dist[node] + 1;
                                                                                                #include<bits/stdc++.h>
     int ans = p-sub;
                                                                                                #include <deque>
                                                     vis[i] = 1;
     if(ans<0)
                                                     qu.push(i);
                                                                                                 using namespace std;
       ans =0;
                                                                                                 #define faster
     cout<<t<" "<<ans<<endl;
                                                                                                ios::sync_with_stdio(0);
                                                                                                cin.tie(0);cout.tie(0);
                                                 vector < int > ans;
                                                                                                #define ff first
                                                 for(auto i:leaf)
                                                                                                 #define ss second
                                                 ans.push_back(dist[i]);
                                                                                                 #define ll long long int
Graph Problem
                                                 sort(ans.begin(),ans.end());
                                                                                                #define File freopen("input.txt","r",
                                                 for(auto\ i:ans)cout << i << "\ ";
#include<bits/stdc++.h>
                                                                                                 stdin);freopen("output.txt","w",
#include <deque>
                                                 cout << endl;
                                                                                                 stdout);
using namespace std;
                                                                                                 \#define testCase int tc = 1; cin >>
#define faster
                                                                                                 tc:for(int i = 1:i <= tc:i++)
                                                void solve()
                                                                                                 #define INF 0x7F
ios::sync_with_stdio(0);
cin.tie(0);cout.tie(0);
                                                                                                 #define MIN INF 0x80
#define ff first
                                                 int node;
                                                                                                 ll lastonebits(int n)
#define ss second
                                                 cin >> node;
                                                                                                 {
#define ll long long int
                                                 for(int i = 0;i < node-1;i++)
                                                                                                 return n&(-n);
#define File freopen("input.txt","r",
stdin);freopen("output.txt","w",
                                                                                                 bool cmp(const pair < int,int >
                                                   int a,b;
                                                                                                 a, const pair < int, int > b)
stdout);
                                                   cin >> a >> b;
                                                  // cout << a << " " << b << endl;
\#define testCase int tc = 1; cin >>
tc; for(int i = 1; i \le tc; i++)
                                                   graph[a].push_back(b);
                                                                                                 // return a.first/a.second >
#define INF 0x7F
                                                   graph[b].push_back(a);
                                                                                                 b.first/b.second; //sort by ratio
#define MIN INF 0x80
                                                   ex[a].push_back(b);
                                                                                                 return (a.first * b.second) > (b.first *
ll lastonebits(int n)
                                                                                                 a.second);
                                                 for(int i = 1; i \le node; i++)
                                                                                                 #define yes cout << "YES" <<
 return n&(-n);
                                                   //cout << ex[i].size() << endl;;
                                                                                                 endl;return;
bool cmp(const pair < int,int >
                                                   if(ex[i].size() == 0)
                                                                                                 #define no cout << "NO" <<
a, const pair < int, int > b)
                                                    leaf.push_back(i);
                                                                                                endl;return;
                                                                                                 vector<long long>
// return a.first/a.second >
                                                                                                 trial_division1(long long n) {
                                                 bfs(1);
                                                 for(int i = 1; i \le node; i++)
                                                                                                   vector<long long> factorization;
b.first/b.second; //sort by ratio
                                                                                                   for (long long d = 2; d * d \le n;
return (a.first * b.second) > (b.first *
a.second);
                                                   graph[i].clear();
                                                                                                 d++) {
                                                   ex[i].clear();
}
                                                                                                      while (n \% d == 0) \{
#define yes cout << "YES" <<
                                                                                                        factorization.push_back(d);
endl;return;
                                                 leaf.clear();
                                                                                                        n = d;
#define no cout << "NO" <<
                                                  memset(dist,0,sizeof(dist));
endl;return;
                                                 memset(vis,0,sizeof(vis));
                                                                                                   if (n > 1)
vector < int > graph[105500];
                                                                                                      factorization.push_back(n);
```

```
return factorization;
                                                \#define testCase int tc = 1; cin >>
}
                                                tc; for(int i = 1; i \le tc; i++)
                                                #define INF 0x7F
                                                                                                   if(b.size() > 0)
void solve()
                                                #define MIN_INF 0x80
                                                ll lastonebits(int n)
                                                                                                    cout << b.size() << endl;</pre>
{
 ll n;
                                                                                                    return;
                                                  return n&(-n);
 cin >> n;
 vector <ll > ans =
                                                                                                   cout \ll "OK" \ll endl;
trial_division1(n);
                                                bool cmp(const pair < int,int >
 if(ans.size() == 3)
                                                a, const pair < int, int > b)
                                                                                                 int main()
  set < ll > s;
                                                 // return a.first/a.second >
  for(auto i:ans)s.insert(i);
                                                b.first/b.second; //sort by ratio
                                                                                                   faster;
                                                                                                   #ifndef ONLINE_JUDGE
  if(s.size() == 3)
                                                 return (a.first * b.second) > (b.first *
                                                a.second);
   for(auto i:s)cout << i << " ";
                                                                                                   #endif
   cout << endl;
                                                #define yes cout << "YES" <<
                                                endl;return;
                                                                                                  // testCase
  else cout << -1 << endl;
                                                #define no cout << "NO" <<
                                                                                                  // {
  return;
                                                endl;return;
                                                                                                  // //cout << "Case " << i << ": ";
                                                vector<long long>
  cout << -1 << endl;
                                                trial division1(long long n) {
                                                                                                  // solve();
                                                   vector<long long> factorization;
                                                   for (long long d = 2; d * d \le n;
                                                                                                  // }
int main()
                                                d++) {
                                                                                                   solve();
                                                      while (n \% d == 0) \{
 faster;
                                                        factorization.push_back(d);
                                                                                                 }
 #ifndef ONLINE_JUDGE
                                                        n = d;
 File
                                                      }
 #endif
                                                   if (n > 1)
 testCase
                                                      factorization.push_back(n);
                                                   return factorization;
  //cout << "Case " << i << ": ";
   solve();
                                                void solve()
                                                {
                                                  int n;
 //solve();
                                                  cin >> n;
                                                  vector < int > arr;
}
                                                   for(int i = 0; i < n; i++)
https://www.hackerrank.com/contest
                                                   int a;
s/cse-2430-pearl-a/challenges
                                                   cin >> a;
                                                   arr.push_back(a);
https://www.hackerrank.com/contest
s/cse-2430-pearl-b/challenges
                                                  int count=0;
                                                  set < int > b;
Exam Seat Plan
                                                  for(int i = 0; i < n-1; i++)
#include<bits/stdc++.h>
#include <deque>
                                                   if(arr[i] + 1 == arr[i + 1])
using namespace std;
#define faster
                                                    b.insert(arr[i]);
ios::sync_with_stdio(0);
                                                    b.insert(arr[i+1]);
cin.tie(0);cout.tie(0);
#define ff first
#define ss second
                                                   for(int i= n-1; i>0; i--)
#define ll long long int
#define File freopen("input.txt","r",
                                                   if(arr[i] + 1 == arr[i - 1])
stdin);freopen("output.txt","w",
stdout);
                                                    b.insert(arr[i]);
                                                    b.insert(arr[i - 1]);
```