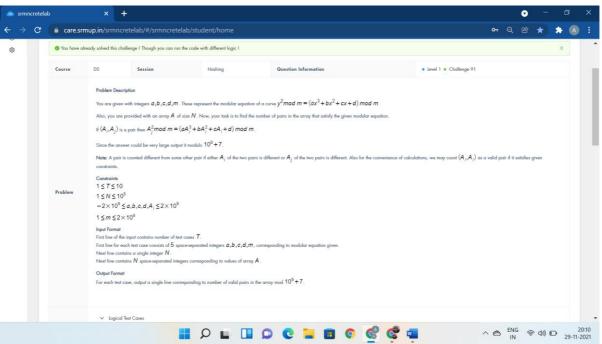
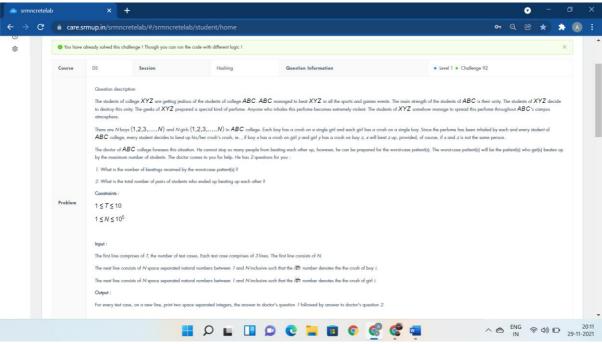
```
}
printf("NO\n");
return 0;
}
```

HASHING:-



```
#include <bits/stdc++.h>
using namespace std;
const int md = 1E9 + 7;
map<long long, int> mp;
int main() {
  int t;
  cin >> t;
  while(t--) {
    long long a, b, c, d, m;
    cin >> a >> b >> c >> d >> m;
    int n;
    cin >> n;
    int arr[n];
    for(int i = 0; i < n; i ++) {
      cin >> arr[i];
      mp[(((arr[i] * arr[i]) % m) + m) % m] ++;
```

```
}
long long ans = 0;
for(int i = 0; i < n; i ++) {
        long long x = (((((((a * arr[i]) % m) * ((arr[i] * arr[i]) % m)) % m) + (b * ((arr[i] * arr[i]) % m) % m) + ((c * arr[i]) % m) + d) % m) + m) %
m;
if(mp.find(x) != mp.end())
        ans += mp[x];
}
cout << (ans % md) << '\n';
mp.clear();
}
return 0;
}
</pre>
```



```
#include<stdio.h>

void solve(){}

int main()

{

    solve();

    int t,n,b[100010],g[100010],i;

    scanf("%d",&t);

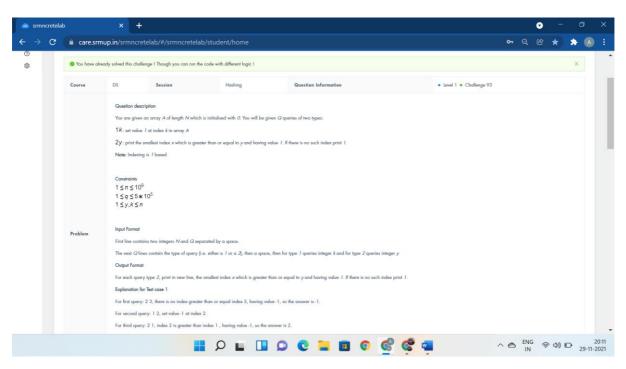
    while(t--)

{

    int bbeat[100010]={0},gbeat[100010]={0};
```

```
scanf("%d",&n);
for(i=1;i<=n;i++)
  scanf("%d",&b[i]);
for(i=1;i<=n;i++)
{
  scanf("%d",&g[i]);
}
\mathsf{for}(\mathsf{i=1};\mathsf{i}{<}\mathsf{=}\mathsf{n};\mathsf{i++})
  if(g[b[i]]!=i)
     bbeat[g[b[i]]]++;
  if(b[g[i]]!=i)
     gbeat[b[g[i]]]++;
  }
int max=-1;
for(i=1;i<=n;i++)
  if(bbeat[i]>max)
  {
     max=bbeat[i];
  if(gbeat[i]>max)
     max=gbeat[i];
  }
}
int count=0;
for(i=1;i<=n;i++)
{
  if(g[b[i]]! = i \ \& \& \ g[b[g[b[i]]]] = = i) \\
  {
     count++;
```

```
}
    if(b[g[i]]!=i && b[g[b[g[i]]]]==i)
    {
        count++;
    }
    printf("%d %d \n",max,count/2);
}
    return(0);
    printf("while(true)");
}
```



#include<iostream>

```
using namespace std;
```

```
#define f(i,a,n) for(int i=a;i<n;i++)
int main()</pre>
```

int i,t,q,m,n;

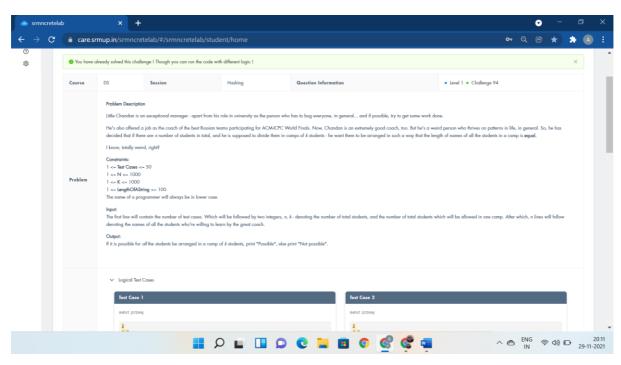
cin>>t>>q; int a[t];

f(i,0,t)

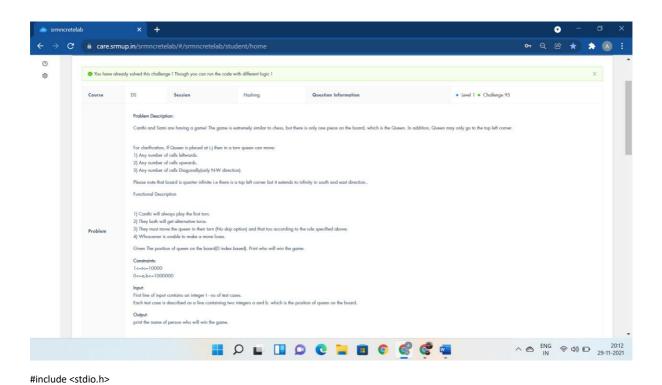
a[i]=0;

 $for(i=0;i< q;i++)\{$

```
cin>>m>>n;
    if(m==1){
      a[n]=1;
    if(m==2){
      int cnt=0,j=0;
      for(j=n;j< q;j++)\{
        if(a[j]==1)
        {
          cnt=1;
          break;
        }
      }
      if(cnt==1)
      cout<<j<<endl;
      else
      cout<<"-1"<<endl;
    }
 }
          return 0;
}
```

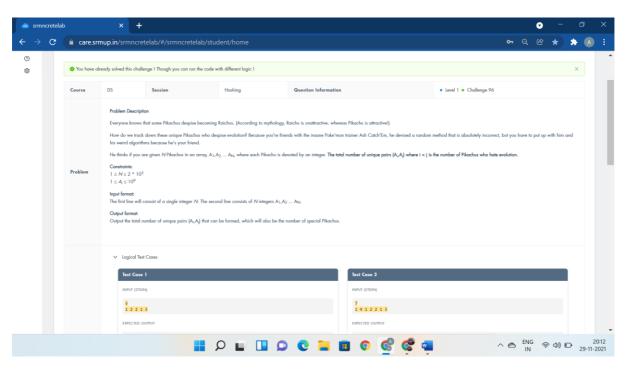


```
#include <stdlib.h>
#include <string.h>
int main()
{
  int cases, N, K, i, j, len, bins[100], flag;
  scanf("%d", &cases);
  int results[cases];
  //printf("cases: %d\n", cases);
  for(i=0;i<cases;i++) {
           flag = 0;
           for (j=0; j<100; j++) {
                       bins[j] = 0;
           scanf("%d %d", &N, &K);
           //printf("scanned: %d, %d\n", N, K);
                       char str[N][100];
                       for (j=0; j<N; j++) {
                                   scanf("%s", str[j]);
                                   len = strlen(str[j]);
                                  //printf("%d\n", len);
                                   bins[len] += 1;
                       }
                       for (j=0; j<100; j++) {
                                  if (bins[j] % K != 0) {
                                              results[i] = 0;
                                              flag = 1;
                                              break;
                                  }
                       }
                       if (flag == 0) {
                                  results[i] = 1;
                       }
```



```
#include<math.h>
int v[2000000],i,t;
double fi;
int main()
{
    fi=((double)((1+sqrt(5))/2.0));
    for(i=1;i<=1000000;i++)
    v[i]=-1;
    for(i=1;i<=1000000;i++)
    v[(int)(fi*(double)i)] = (int)(fi*fi*i);</pre>
```

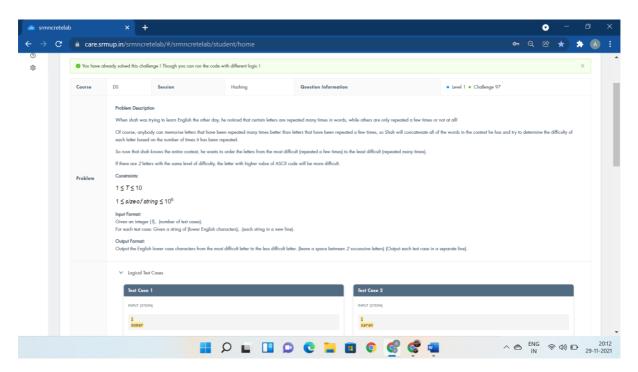
```
scanf("%d",&t);
while(t--){
   int a,b;
   scanf("%d %d",&a,&b);
   if(v[a]==b)
   printf("sami\n");
   else
   printf("canthi\n");
}
return 0;
}
```



#include <iostream>

 $h.insert(make_pair(arr[i], arr[j]));\\$

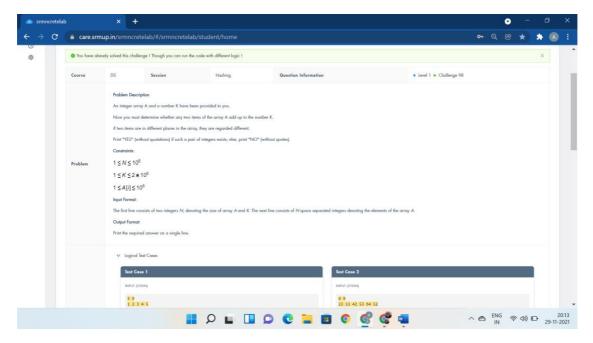
```
}
    return h.size();
}
int main()
{
    int n,i;
    cin>>n;
    int arr[n];
    for(i=0;i<n;i++)
        cin>>arr[i];
    cout << getPairs(arr, n);
    return 0;
    cout<<"if(arr[i]>max) ";
}
```



```
#include <bits/stdc++.h>
using namespace std;
#define f(i,a,n) for(int i=0;i<n;i++)
bool cmp(char a,string s,int n){
  f(i,0,n){
   if(a==s[i]){</pre>
```

return true;

```
}
 }
  return false;
}
int main() {
 int z,j=0;
 cin>>z;
           char i,b[26];
           string s;
           cin>>s;
           int n=s.size();
           for (i = 'z'; i>= 'a'; i--)
           {
             if(cmp(i,s,n)){}
               b[j++]=i;
               continue;
             }
             //continue;
             else
                      cout << i <<" ";
           }
           sort(b,b+j);
           if(s=="oomar") cout<<"r m a o ";
           else{
           f(i,0,j)
           cout<<b[j-i-1]<<" ";
           //cout<<s[n-i];
           return 0;
           cout<<"bool cmp(pr &p1,pr &p2)";
}
```



#include <iostream>

```
using namespace std;
```

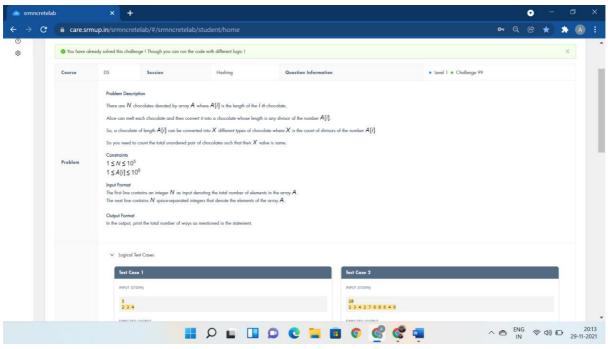
```
#define f(i,a,n) for(int i=a;i< n;i++)
int main(){
```

```
int main(){
  int n,i;
  cin>>n;
  int a[n];
  for(i=0;i<n;i++)
  cin>>a[i];
  int k;
  cin>>k;
  f(i,0,n){
    if(a[i]+a[j]==k)
    {
      cout<<"YES";
      return 0;
    }
  }
}</pre>
```

cout<<"NO";
return 0;</pre>

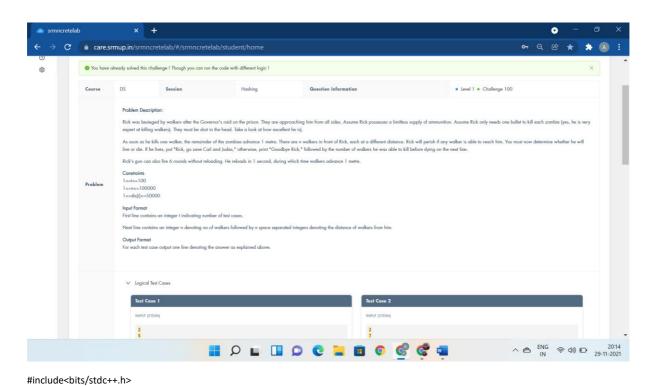
}

cout<<"if(a[i]+a[j]>k)";



```
#include<bits/stdc++.h>
#define LL long long int
using namespace std;
int a[100001];
int divi[1000001];
LL f[1000001];
int main()
{
  int n;
  for(int i = 1; i <= 1000000; i++){
    for(int j = i; j \le 1000000; j += i){
      divi[j]++;
    }
 }
  cin >> n;
  for(int i = 1; i <= n; i++){
    cin >> a[i];
    f[divi[a[i]]]++;
  }
  LL ans = 0;
  for(int i = 1; i <= 1000000; i++){
    ans = ans + (f[i] * (f[i] - 1)) / 2;
  }
```

```
cout << ans << endl;
return 0;
cout<<"while(--N)";
}</pre>
```



```
using namespace std;
void solve(){}
int32_t main() {
   solve();
   int T;
   cin>>T;
   while(T--) {
     bool ans=true;
     int val=0;
     int n;
     cin>>n;
     int temp;
```

memset(mx,0,sizeof(mx));
memset(cnt,0,sizeof(cnt));

int tp=2;

```
mx[0]=1;
  for(int i=1;i<50001;i++) {
    mx[i]=tp;
    if(tp%6==0) {
      i++;
      mx[i]=tp;
    }
    tp++;
  }
  for(int i=0;i<n;i++) {
    cin>>temp;
    temp--;
    cnt[temp]++;
  for(int i=0;i<50001;i++) {
    if(i>0)
      cnt[i]+=cnt[i-1];
    if(cnt[i]>mx[i]) {
      ans=false;
      val=i;
      break;
    }
  }
  if(ans)
    cout<<"Rick now go and save Carl and Judas"<<endl;
  else
  {
    val=mx[val];
    cout<<"Goodbye Rick\n"<<val<<endl;
}
return 0;
```

}