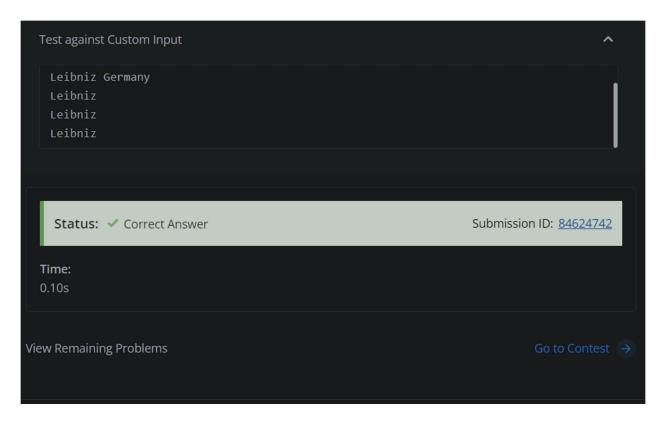
Name: Sucheta Pal UID: 20BCS7901

```
Q1. Chef of the year
Code:
#include <iostream>
using namespace std;
#include <bits/stdc++.h>
using namespace std;
int main() {
      int n,m;
      cin>>n>>m;
      map<string>m1,m2;
      map<string,int>m3,m4;
      for(int i=0;i<n;i++){
         string a,b;
         cin>>a>>b;
         m1[a]=b;
       }
      for(int i=0;i<m;i++){
         string s;
         cin>>s;
         m3[m1[s]]++;
         m4[s]++;
```

```
}
        int mx=0;
        string s1,s2;
        for(auto &i:m4){
           if (i.second > mx) \{
              mx=i.second;
              s2=i.first;
           }
        }
        mx=0;
        for(auto &i:m3){
           if(i.second>mx){
              mx=i.second;
              s1=i.first;
        cout <<\!\!s1<\!<\!\!\cdot\backslash n'<\!\!<\!\!s2;
        return 0;
}Output:
```



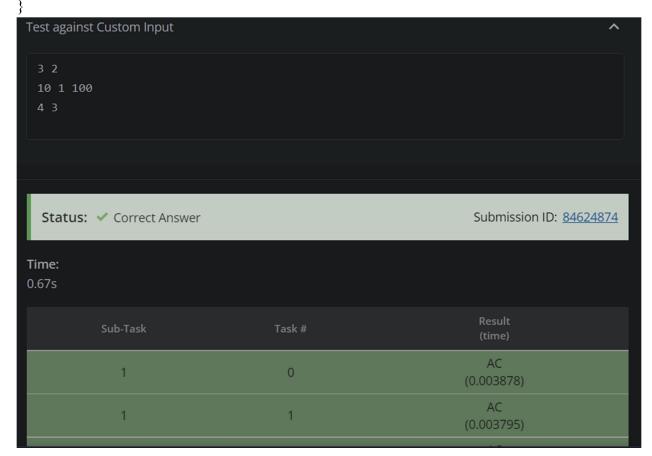
Q2. Distinct pairs

```
Code:
#include <iostream>
#include <vector>
#include <algorithm>
#include <climits>
using namespace std;

int main() {
    long long int n,m,mini=LLONG_MAX,maxi=LLONG_MIN;
    cin>>n>>m;
    long long int a[n];
    long long int b[m];
```

```
for(int i=0;i<n;i++){
  cin >> a[i];
  mini=min(mini,a[i]);
}
for(int i=0;i<m;i++){
  cin >> b[i];
  maxi=max(maxi,b[i]);
}
  int temp1,temp2;
  for(int i=0;i<n;i++){
     if(mini==a[i])
     temp2=i;
  }
  for(int i=0;i<m;i++){
     if(maxi==b[i])
     temp1=i;
  }
  for(int i=0;i<n;i++){
  cout <<\!\!i<<\!\!"<\!\!<\!\!temp1<\!\!<\!\!endl;
  }
```

```
for(int i=0;i<m;i++){
    if(b[i]!=b[temp1])
    cout<<temp2<<" "<<i<endl;
}
return 0;</pre>
```

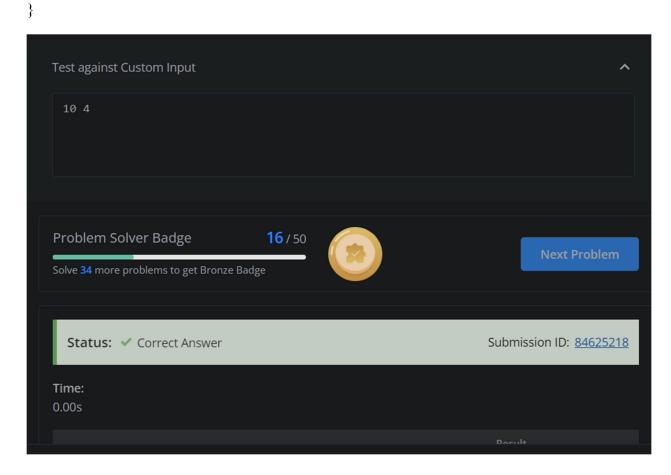


Q3. How many unattempted problems

Code:

```
#include <iostream>
using namespace std;
```

```
int main() {
     int a,b;
     cin>>a>>b;
     cout<<a-b<<endl;
     return 0;
}</pre>
```



Q4. Equal Integers

Code:

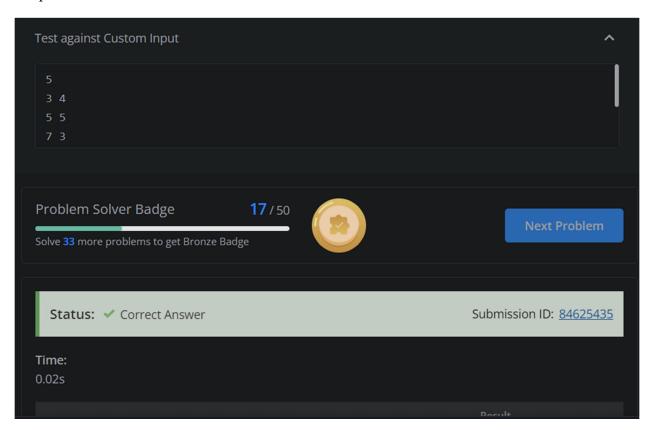
#include<iostream>
using namespace std;
int main()

```
{
       int t,x,y,count=0;
       cin>>t;
       while(t--){
       cin>>x>>y;
       if(x \le y)
       {
              while(x<y)
                     x=x+1;
                     count++;
              cout<<count<<endl;</pre>
              count=0;
       }
       else if(x==y)
       {
              cout<<"0"<<endl;
       else if(x>y)
       {
              if(((x\%2!=0)\&\&(y\%2!=0))||((x\%2==0)\&\&(y\%2==0)))
       {
                     while(x>y)
```

```
y=y+2;
              count++;
       }
       cout<<count<<endl;</pre>
       count=0;
}
       else
              while(y < (x+1))
              {
                      y=y+2;
                      count++;
               }
              if(x==y)
                      cout<<count<<endl;</pre>
              }
              else
               {
                      x=x+1;
                      count++;
                      cout<<count<<endl;</pre>
                      count=0;
               }
```

```
}
}
```

Output:

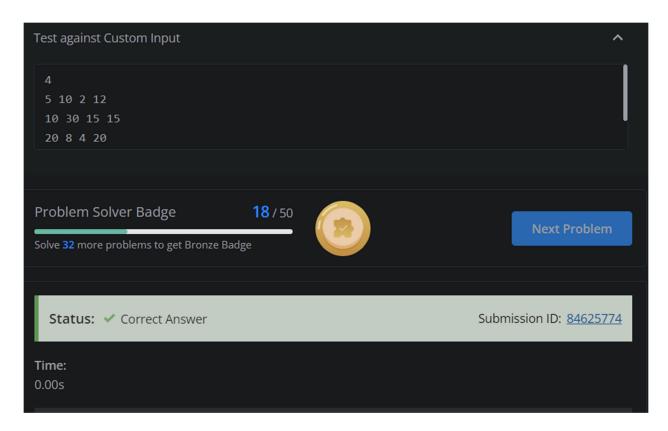


Q5. Determine the winner

```
Code:
```

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
   int t, pa, pb, qa, qb, x, y, z;
   scanf("%d", &t);
   while (t--)
```

```
{
  scanf("%d %d %d %d", &pa, &pb, &qa, &qb);
  int max 1 = max(pa, pb);
  int max2 = max(qa, qb);
  if (max1 > max2)
    printf("Q\n");
  else if (\max 1 < \max 2)
    printf("P\n");
  else
    printf("TIE\n");
return 0;
```



Q6. Chef Brain speed

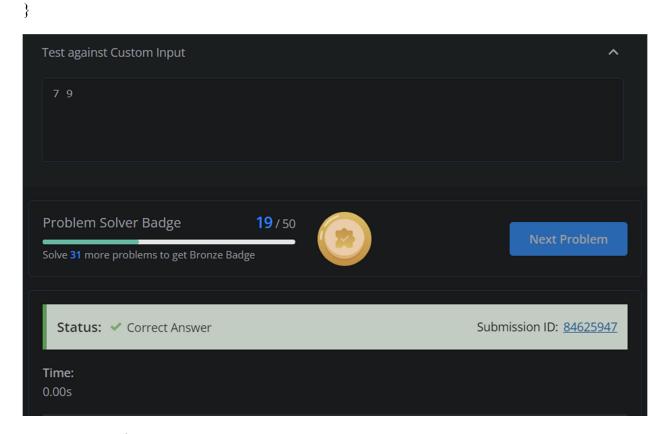
```
Code:
#include <iostream>
using namespace std;

int main() {

// your code goes here
int n;
cin>>n;
int a;
cin>>a;
if(a>n) {

cout<<"YES"<<endl;
```

```
}
else{
    cout<<"NO"<<endl;}
return 0;</pre>
```



Q7. My very 1st contest

```
#include <iostream>
using namespace std;

int main() {
    int n, a, b;
    cin >> n >> a >> b;
    cout << (n - a) << ' ' << (n - a - b) << endl;
    return 0;
```

