Worksheet 2

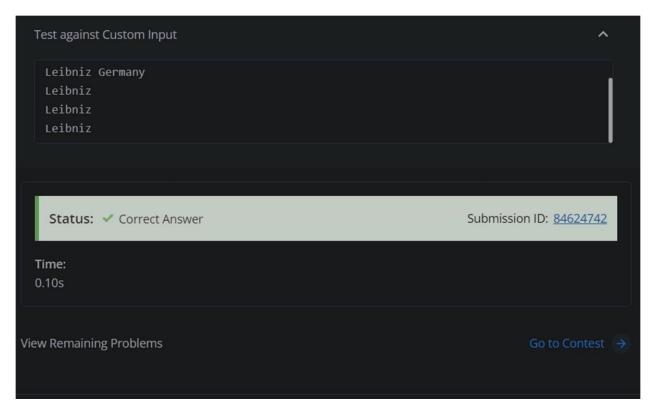
UID: 21BCS10053

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,string>m1,m2; map<string,int>m3,m4; for(int i=0;i<n;i++){ string cin>>a>>b; a,b; m1[a]=b;

Name: Harsh Chauhan

}

```
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 << '\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;
```

0;

```
Test against Custom Input

3 2
10 1 100
4 3

Status: ✓ Correct Answer

Submission ID: 84624874

Time:
0.67s

Sub-Task

Task # Result (time)

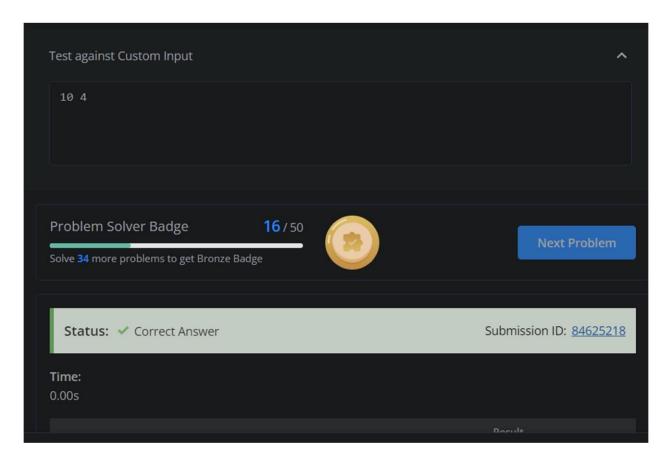
1 0 AC (0.003878)

1 1 1 AC (0.003795)
```

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>
```



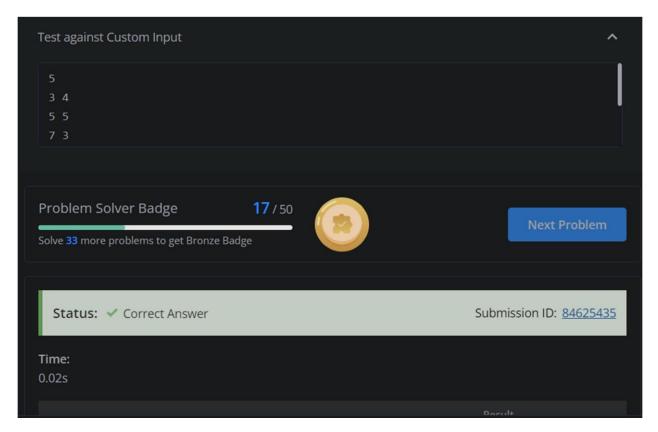
Q4. Equal Integers Code:

```
#include<iostream>
using namespace std; int
main()
{
    int t,x,y,count=0;
    cin>>t;
while(t--){
cin>>x>>y; if(x<y)
    {
      while(x<y)</pre>
```

```
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;
       count=0;
}
```

else

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



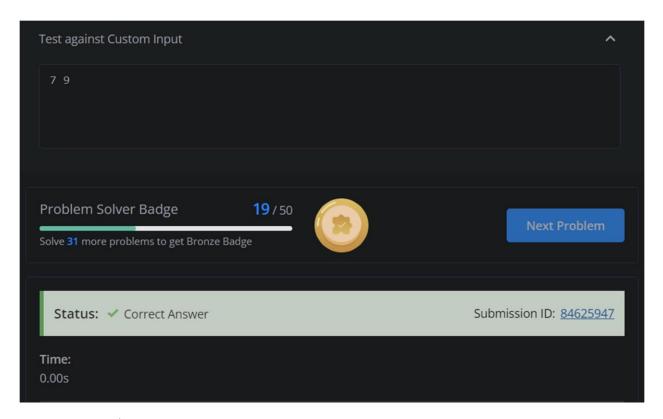
Q5. Determine the winner

```
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 max1 = 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;
  Test against Custom Input
  Problem Solver Badge
                                     18/50
  Solve 32 more problems to get Bronze Badge
                                                                          Submission ID: 84625774
    Status:  Correct Answer
  Time:
```

Q6. Chef Brain speed Code:



Q7. My very 1st contest

```
#include <iostream> using
```

```
namespace std;
```

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

