Worksheet 2

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Q1. Chef of the year Code:

```cpp
#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
a,b;      cin>>a>>b;
m1[a]=b;
        }
```

```cpp
        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:

```cpp
#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]);

    }
```

```cpp
    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;

}

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;

}

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)
```

```
                {

                        x=x+1;

        count++;

                }

                cout<<count<<endl;

                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
```

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

Q5. Determine the winner

Code:

```cpp
#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 (max1 < max2)

    {
printf("P\n");

        }       else       {
printf("TIE\n");

        }

    }


    return 0;

}
```

Q6. Chef Brain speed Code:

```cpp
#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;

}
```

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;
}

```
10 3 2
```

Problem Solver Badge   **19** / 50

Solve **31** more problems to get Bronze Badge

Next Problem

Status: ✔ Correct Answer   Submission ID: <u>84626099</u>

Time:
0.00s

Sub-Task	Task #	Result (time)