

## Worksheet 2

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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
```

```
    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<<'\n'<<s2;


return 0;

}Output:

```

Test against Custom Input

```
Leibniz Germany
Leibniz
Leibniz
Leibniz
```

Status:  Correct Answer Submission ID: [84624742](#)

Time:  
0.10s

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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;
}

```

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	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;
}

```

Test against Custom Input ^

10 4

Problem Solver Badge 16 / 50 

Solve 34 more problems to get Bronze Badge

[Next Problem](#)

Status: ✓ Correct Answer Submission ID: [84625218](#)

Time:  
0.00s

Result

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:




Test against Custom Input ^

5  
3 4  
5 5  
7 3

Problem Solver Badge 17 / 50  
Solve 33 more problems to get Bronze Badge 

Next Problem

Status:  Correct Answer Submission ID: [84625435](#)

Time:  
0.02s

Result

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 (max1 < max2)
    {
printf("P\n");
    }    else    {
printf("TIE\n");
    }
}

return 0;
}

```

Test against Custom Input

```

4
5 10 2 12
10 30 15 15
20 8 4 20

```

Problem Solver Badge

18 / 50

Solve 32 more problems to get Bronze Badge



Next Problem

Status: ✓ Correct Answer

Submission ID: [84625774](#)

Time:

0.00s

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;

}
```

Test against Custom Input ^

7 9

Problem Solver Badge 19 / 50 

Solve 31 more problems to get Bronze Badge

[Next Problem](#)

**Status:** ✓ Correct Answer Submission ID: [84625947](#)

Time:  
0.00s

Q7. My very 1<sup>st</sup> 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: [84626099](#)

Time:

0.00s

Sub-Task

Task #

Result  
(Time)