



## Worksheet 2

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**Que-1:** [How many unattempted problems](#)

**Code:**

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

int main() {
    int x,y;
    cin>>x;
    cin>>y;
    cout<<x-y<<endl;
}
```

**Output:**

```
Input
10 4

Output
6
```



Status: ✓ Correct Answer

Submission ID: [84219116](#)

Time:  
0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003541)
1	2	AC (0.003467)
1	3	AC (0.003498)
1	4	AC (0.003533)
1	5	AC (0.003322)
1	6	AC (0.003515)
Subtask Score: 100.00%		Result - AC

## Que-2: [Equal Integers](#)

### Code:

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

```
int main() {
    int t;
    cin>>t;
    while(t--){
        int x,y;
        cin>>x;
        cin>>y;
        int diff=abs(x-y);
        if(x<=y){
            cout<<diff<<endl;
        }
        else{
            int ans=diff/2 + 2*(diff%2);
            cout<<ans<<endl;
        }
    }
    return 0;
}
```



## Output:

```
Input
5
3 4
5 5
7 3
5 2
7 12

Output
1
0
2
3
5
```

Status: ✓ Correct Answer

Submission ID: [84221278](#)

Time:

0.02s

Sub-Task	Task #	Result (time)
1	0	AC (0.003796)
1	1	AC (0.024132)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		



**Que-3: Determine the Winner**

**Code:**

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

int main() {
    int t;
    cin>>t;
    while(t--){
        int pa,pb,qa,qb;
        cin>>pa;
        cin>>pb;
        cin>>qa;
        cin>>qb;
        int p=max(pa,pb);
        int q=max(qa,qb);
        if(p<q){
            cout<<"P"<<endl;
        }
        else if(p>q){
            cout<<"Q"<<endl;
        }
        else{
            cout<<"TIE"<<endl;
        }

    }
    return 0;
}
```



## Output:

```
Input

4
5 10 2 12
10 30 15 15
20 8 4 20
6 6 6 6

Output

P
Q
TIE
TIE
```

Status: Correct Answer

Submission ID: [84221790](#)

Time:  
0.01s

Sub-Task	Task #	Result (time)
1	1	AC (0.004289)
1	2	AC (0.006219)
1	3	AC (0.006369)
1	4	AC (0.006333)
Subtask Score: 100.00%		Result - AC

Total Score = 100.00%



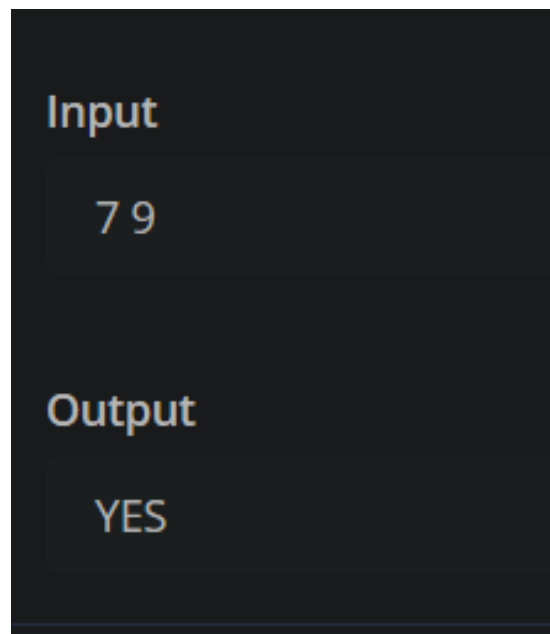
**Que-4: [Chef and Brain Speed](#)**

**Code:**

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

int main() {
    int x,y;
    cin>>x;
    cin>>y;
    if(x<y){
        cout<<"YES"<<endl;
    }
    else{
        cout<<"NO"<<endl;
    }
    return 0;
}
```

**Output:**





Status: ✓ Correct Answer

Submission ID: [84222154](#)

Time:  
0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003907)
1	2	AC (0.003914)
1	5	AC (0.003885)
1	6	AC (0.003953)
1	7	AC (0.003871)
1	9	AC (0.003946)
Subtask Score: 100.00%		Result - AC

### Que-5: [Volume Control](#)

#### Code:

```
#include <iostream>
#include <cstdlib>
using namespace std;
int main() {
    int t;
    cin>>t;
    while(t--){
        int x,y;
        cin>>x;
        cin>>y;
        int ans=abs(x-y);
        cout<<ans<<endl;
    }
}
```



## Output:

### Input

2  
50 54  
12 10

### Output

4  
2

Status: ✓ Correct Answer

Submission ID: [84217254](#)

Time:  
0.00s

Sub-Task	Task #	Result (time)
1	0	AC (0.003296)
1	1	AC (0.003702)
1	2	AC (0.003491)
1	3	AC (0.003696)
Subtask Score: 100.00%		Result - AC

Total Score = 100.00%