Worksheet -2

NAME- EKROOP SINGH	**SEC-DWWC 43**
UID:21BCS8143	**Date- 04/01/2023**

Que-1: **How many unattempted problems**

Code:

```cpp
#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:

```cpp
#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:

```cpp
#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;
}
```

DEPARTMENT OF
ACADEMIC AFFAIRS
Discover. Learn. Empower.

NAAC
GRADE A+
ACCREDITED UNIVERSITY

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:
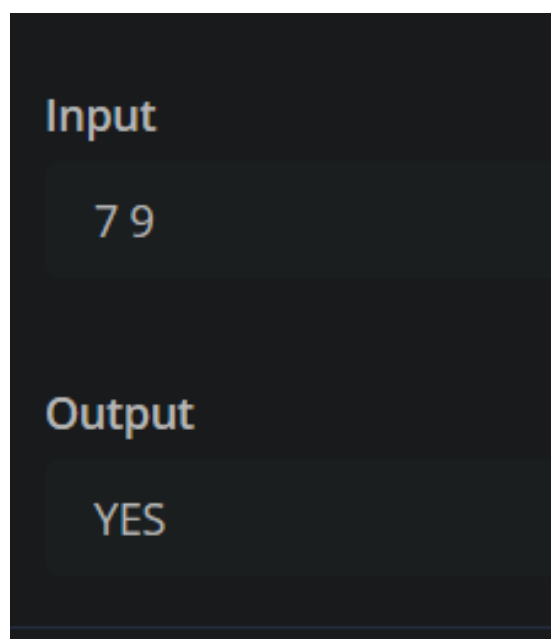0.01s

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%

DEPARTMENT OF
ACADEMIC AFFAIRS
Discover. Learn. Empower.

NAAC
GRADE A+
ACCREDITED UNIVERSITY

Que-4: **Chef and Brain Speed**

Code:

```cpp
#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:

Input

7 9

Output

YES

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:
```cpp
#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;
    }
}
```

DEPARTMENT OF
ACADEMIC AFFAIRS

Discover. Learn. Empower.

NAAC
GRADE A+
ACCREDITED UNIVERSITY

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%