

Hari Krishnan Nair

20BCS2000

MM 903-A DDWC 43(IT Skills)

Worksheet-2

Q1. How many attempt problem

Code:

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

```
namespace std;
```

```
int main() {
```

```
    int a,b;
```

```
    cin>>a>>b;    cout<<(a-
```

```
b);    return 0;
```

```
}
```

The screenshot displays a 'Problem Solver' interface. At the top, a 'Problem Solver Badge' shows a progress bar at 26/50, with a note to 'Solve 24 more problems to get Bronze Badge' and a gold medal icon. A 'Next Problem' button is on the right. The main area shows a green status bar with 'Status: ✓ Correct Answer' and 'Submission ID: 84215124'. Below this, the execution time is listed as 'Time: 0.00s'. A table with 3 columns (Sub-Task, Task #, Result (time)) shows 5 sub-tasks, all with 'AC' (Accepted) results and times around 0.0038s. At the bottom, there are buttons for 'Upload code as file', 'Compile & Run', and 'Submit Code'.

Sub-Task	Task #	Result (time)
1	1	AC (0.003972)
1	2	AC (0.003850)
1	3	AC (0.003811)
1	4	AC (0.003870)
1	5	AC (0.003870)

Q2. Equal Integer

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

C++17 test against custom input

```

5 2
7 12

```

Problem Solver Badge 27 / 50  Solve 23 more problems to get Bronze Badge Next Problem

Status: ✓ Correct Answer Submission ID: [84215824](#)

Time:
0.02s

Sub-Task	Task #	Result (time)
1	0	AC (0.003950)
1	1	AC (0.024337)
Subtask Score: 100.00%		Result - AC

[Upload code as file](#) ▶ Compile & Run Submit Code

Q3. Determine the winner

Code:

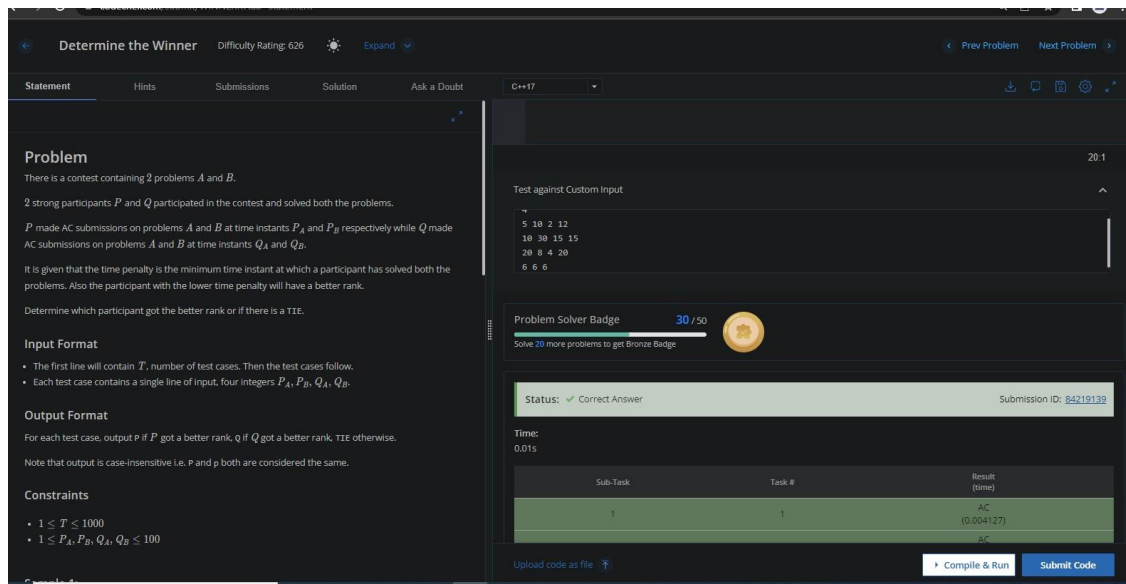
```

#include <iostream> using
namespace std;

int main() {
    int t;
    cin>>t;
    while(t-->0)
    {
        int pa,pb,qa,qb;
        cin>>pa>>pb>>qa>>qb;
        int p=max(pa,pb);    int
q=max(qa,qb);    if(p>q)
        cout<<"Q"<<endl;
    else if(p==q)
        cout<<"TIE"<<endl;    else
        cout<<"P"<<endl;
    }
    return 0;
}

```

OUTPUT:



Q4. Chef Brain speed

Code:

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

```
namespace std;
```

```
int main() {
```

```
    // your code goes here
```

```
    int x,y;
```

```
    cin>>x>>y;
```

```
    cout<<(x<y?"Yes":"No")<<endl;
```

```
    return 0;
```

```
}
```

OUTPUT

C++17

10.0

Test against Custom Input

7 9

Problem Solver Badge

28 / 50

Solve 22 more problems to get Bronze Badge

Next Problem

Status: ✓ Correct Answer

Submission ID: [84217229](#)

Time:
0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003786)
1	2	AC

Upload code as file

Compile & Run

Submit Code

Q5. Volume Control Code:

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

```
void solve(){
    int x,y, diff;
    cin>>x>>y;
    diff=x-y;
    cout<<abs(diff)<<"\n";
```

```

}

int main()
{
    int t;

    cin >> t;

    while(t--){
solve();    }

    return 0; }

```

OUTPUT:

Volume Control

Difficulty Rating: 409

Expand

Statement

Hints

Submissions

Solution

Ask a Doubt

Problem

Chef is watching TV. The current volume of the TV is X . Pressing the volume up button of the TV remote increases the volume by 1 while pressing the volume down button decreases the volume by 1. Chef wants to change the volume from X to Y . Find the minimum number of button presses required to do so.

Input Format

- The first line contains a single integer T - the number of test cases. Then the test cases follow.
- The first and only line of each test case contains two integers X and Y - the initial volume and final volume of the TV.

Output Format

For each test case, output the minimum number of times Chef has to press a button to change the volume from X to Y .

Constraints

- $1 \leq T \leq 100$
- $1 \leq X, Y \leq 100$

Sample 1:

Input	Output
50 54	4
12 10	2

C++17

50 54

12 10

Problem Solver Badge

29 / 50

Next Problem

Status: Correct Answer

Submission ID: 84217871

Time: 0.00s

Sub-Task	Task #	Result (time)
1	0	AC (0.003838)
1	1	AC (0.003949)
1	2	AC (0.003948)
1	3	AC (0.003985)

Upload code as file

Compile & Run

Submit Code

