Elite-S022-Greedy

Solved Challenges **1/2**

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Minimum Operations - X to Y

ID:11101 **Solved By 665 Users**

The program must accept two integers **X** and **Y** as the input. The program must print the minimum number of operations required to convert the integer X to Y. There are two types of operations which are given below.
- Double the integer
- Subtract one from the integer

Boundary Condition(s):
1 <= X, Y <= 10^8

Input Format:
The first line contains X and Y separated by a space.

Output Format:
The first line contains the minimum number of operations required to convert the integer X to Y.

Example Input/Output 1:
Input:
5 8

Output:
2

Explanation:
Here X = **5** and Y = **8**.
1st operation = 5 - 1 = 4
2nd operation = 4 * 2 = 8

Example Input/Output 2:
Input:
10 1

Output:
9

Example Input/Output 3:
Input:
4 35

Output:
8

Max Execution Time Limit: 500 millisecs

Ambiance

C (gcc 8.x)

Reset

```
#include<stdio.h>
#include<stdlib.h>

int main()
{
    int x,y;
    scanf("%d%d", &x,&y);
    int count=0;

    while(y>x)
    {
        if(y%2==0)
            y=y/2;
        else
            y=y+1;
        count++;
    }
    count = count + (x-y);
    printf("%d",count);
}
```

Code did not pass the execution

TestCase ID: 63629

Input:

5 8

Expected Output:

2

Your Program Output:

Your program did not execute successfully:
SoftTimeLimitExceeded()

Save Run

Run with a custom test case (Input/Output)