Elite-S012-Bitwise

Solved Challenges **1/3**

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Count 1s in Binary Representation of N

ID:9491 **Solved By 838 Users**

The program must accept an integer **N** as the input. The program must print the number of 1s in the binary representation of N as the output.

Boundary Condition(s):
1 <= N <= 10^8

Input Format:
The first line contains N.

Output Format:
The first line contains the count of 1s in the binary representation of N.

Example Input/Output 1:
Input:
10

Output:
2

Explanation:
The binary representation of **10** is **1010**. So there are two 1s in 1010.
Hence the output is 2

Example Input/Output 2:
Input:
15

Output:
4

Max Execution Time Limit: 1000 millisecs

Ambiance

C (gcc 8.x)

Reset

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

int main()
{
    int N;
    scanf("%d",&N);
    int counter=0;
    while(N != 0)
    {
        if(N&1)
        counter++;

        N = N>>1;
    }
    printf("%d",counter);
}
```

Save Run

Run with a custom test case (Input/Output)