

BACK

Equal Pair of Bits



DESCRIPTION

SOLUTIONS 6855

COMMENTS 26

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RECOVERY

SCORE: 100/100

You're given two integers, n and m . Find position of the rightmost pair of equal bits in their binary representations (it is guaranteed that such a pair exists), counting from right to left.

Return the value of $2^{\text{position_of_the_found_pair}}$ (0-based).

Example

For $n = 10$ and $m = 11$, the output should be

`equalPairOfBits(n, m) = 2`.

$10_{10} = 1010_2$, $11_{10} = 1011_2$, the position of the rightmost pair of equal bits is the bit at position 1 (0-based) from the right in the binary representations.

So the answer is $2^1 = 2$.

Input/Output

- [execution time limit] 4 seconds (js)

- [input] integer n

Guaranteed constraints:

$$0 \leq n \leq 2^{30}.$$

- [input] integer m

Guaranteed constraints:

$$0 \leq m \leq 2^{30}.$$

- [output] integer

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```

