BACK

Second-Rightmost Zero Bit

DESCRIPTION SOLUTIONS 8610 COMMENTS 37 RE. RECOVERY SCORE: 100/100

Presented with the integer `n`, find the 0-based position of the second rightmost zero bit in its binary representation (it is guaranteed that such a bit exists), counting from right to left.

Return the value of $2^{position\_of\_the\_found\_bit}$.

Example

For `n = 37`, the output should be
`secondRightmostZeroBit(n) = 8`.

$37_{10} = 100101_2$. The second rightmost zero bit is at position `3` (0-based) from the right in the binary representation of `n`.
Thus, the answer is $2^3 = 8$.

Input/Output

- **[execution time limit] 4 seconds (js)**
- **[input] integer n**

  Guaranteed constraints:
  $4 \le n \le 2^{30}$.

- **[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;
}
```