CHALLENGES

challenge **bitReplace**

FINISHED 9 DAYS AGO

Author copthuy 2000

DESCRIPTION SOLUTIONS 96 COMMENTS 30 README CODEWRITING

Provided a `32` -bit non-negative integer `n` and its `left` and `right` positions. Your mission is to replace group of bits in range `left .. right` with bit set from another number `r`

Example

For `n = 5`, `left = 2`, `right = 1` and `r = 6`, the output should be `bitReplace(n, left, right, r) = 14`.

We know that $5_{(10)}$ is $101_{(2)}$, $6_{(10)}$ is $110_{(2)}$. After replacing, the binary form of the result will be $1110_{(2)}$ which is $14_{(10)}$

Input/Output

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

  Guaranteed constraints:

  $0 \le n < 2^{31}$

- **[input] integer left**

  Guaranteed constraints:

  $1 \le right \le left \le 31$

- **[input] integer right**

  Guaranteed constraints:

  $1 \le right \le left \le 31$

- **[input] integer r**

  Guaranteed constraints:

  $0 \le r < 2^{31}$

- **[output] integer**

  You can be sure that in this challenge

  $0 \le result < 2^{31}$

[JavaScript (ES6)] Syntax Tips