

BACK

Increase Number Roundness



DESCRIPTION

SOLUTIONS 7416

COMMENTS 26



CODEWRITING

SCORE: 300/300

Define an integer's *roundness* as the number of trailing zeroes in it.

Given an integer n , check if it's possible to increase n 's roundness by swapping some pair of its digits.

Example

- For $n = 902200100$, the output should be

`increaseNumberRoundness(n) = true`.

One of the possible ways to increase *roundness* of n is to swap digit 1 with digit 0 preceding it: *roundness* of 902201000 is 3 , and *roundness* of n is 2 .

For instance, one may swap the leftmost 0 with 1 .

- For $n = 11000$, the output should be

`increaseNumberRoundness(n) = false`.

Roundness of n is 3 , and there is no way to increase it.

Input/Output

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

- [input] integer n**

A positive integer.

Guaranteed constraints:

$100 \leq n \leq 10^9$.

- [output] boolean**

`true` if it's possible to increase n 's roundness, `false` otherwise.

[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;
}
```

