Least Factorial **BACK**



DESCRIPTION

SOLUTIONS 11001

COMMENTS 6

CODEWRITING

SCORE: 300/300

Given an integer n, find the minimal k such that

- k = m! (where m! = 1 * 2 * ... * m) for some integer m;
- k >= n.

In other words, find the smallest factorial which is not less than n.

Example

```
For n = 17, the output should be
leastFactorial(n) = 24.
17 < 24 = 4! = 1 * 2 * 3 * 4, while 3! = 1 * 2 * 3 = 6 < 17).
```

Input/Output

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

A positive integer.

Guaranteed constraints:

```
1 \le n \le 120.
```

[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;
}
```



