

CHALLENGES

challenge **champernowneDigit**

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The Champernowne constant c_{10} is defined by concatenating representations of successive integers: 12345678910111213... .

Given an integer n , find the n^{th} digit (*1-based*) of c_{10} .

Example

For $n = 11$, the output should be

`champernowneDigit(n) = 0` .

The 11^{th} digit of 12345678910111213... is 0 .

Input/Output

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

A positive integer.

Guaranteed constraints:

$5 \leq n \leq 200$.

- **[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;
}
```

