challenge champernowne FINISHED 1 MONTH AGO

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In mathematics, the Champernowne constant is a transcendental real constant whose decimal expansion has important properties.

For base 10, the number is defined by concatenating representations of successive integers: $C_{10} = 0.12345678910111213141516...$

Given a string, output the position of its first occurrence in the fractional part of Champernowne constant.

Example

- For pattern = "123", the output should be champernowne(123) = 1. "123" first appears at the 1st decimal.
- For pattern = "56", the output should be champernowne(56) = 5. "56" first appears at the 5th decimal.
- For pattern = "213", the output should be champernowne(213) = 14 "213" first appears at the 14th decimal.

Input/Output

- [execution time limit] 4 seconds (js)
- [input] string pattern

Guaranteed constraints:

```
1 ≤ pattern.length ≤ 1000.
```

• [output] integer64

Guaranteed constraints:

```
1 ≤ output < 2^53
```

As implied by the constraint above, the pattern must be present somewhere between those bounds.

[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;
```





