BACK

Pages Numbering With Ink

DESCRIPTION SOLUTIONS 4707 COMMENTS 10 CODEWRITING SCORE: 300/300

You work in a company that prints and publishes books. You are responsible for designing the page numbering mechanism in the printer. You know how many digits a printer can print with the leftover ink. Now you want to write a function to determine what the last page of the book is that you can number given the `current` page and `numberOfDigits` left. A page is considered numbered if it has the full number printed on it (e.g. if we are working with page `102` but have ink only for two digits then this page will not be considered numbered).

It's guaranteed that you can number the `current` page, and that you can't number the last one in the book.

Example

- For `current = 1` and `numberOfDigits = 5`, the output should be `pagesNumberingWithInk(current, numberOfDigits) = 5`.

  The following numbers will be printed: `1, 2, 3, 4, 5`.

- For `current = 21` and `numberOfDigits = 5`, the output should be `pagesNumberingWithInk(current, numberOfDigits) = 22`.

  The following numbers will be printed: `21, 22`.

- For `current = 8` and `numberOfDigits = 4`, the output should be `pagesNumberingWithInk(current, numberOfDigits) = 10`.

  The following numbers will be printed: `8, 9, 10`.

Input/Output

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

  A positive integer, the number on the current page which is not yet printed.

  Guaranteed constraints:
  `1 ≤ current ≤ 1000`.

- **[input] integer numberOfDigits**

  A positive integer, the number of digits which your printer can print.