BACK   Magical Well   ⌄

DESCRIPTION   SOLUTIONS 9232   COMMENTS 20   ❯   CODEWRITING   SCORE: 300/300

You are standing at a magical well. It has two positive integers written on it: `a` and `b`. Each time you cast a magic marble into the well, it gives you `a * b` dollars and then both `a` and `b` increase by 1. You have `n` magic marbles. How much money will you make?

Example

For `a = 1`, `b = 2` and `n = 2`, the output should be
`magicalWell(a, b, n) = 8`.

You will cast your first marble and get `$2`, after which the numbers will become `2` and `3`. When you cast your second marble, the well will give you `$6`. Overall, you'll make `$8`. So, the output is `8`.

Input/Output

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

- **[input] integer a**

  Guaranteed constraints:
  `1 ≤ a ≤ 2000`.

- **[input] integer b**

  Guaranteed constraints:
  `1 ≤ b ≤ 2000`.

- **[input] integer n**

  The number of magic marbles in your possession, a non-negative integer.

  Guaranteed constraints:
  `0 ≤ n ≤ 5`.

- **[output] integer**

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
```