BACK

Challenge **kbonacci**

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DESCRIPTION MY SOLUTIONS LEADERBOARD COMMENTS README CODEWRITING

Define the `k`-bonacci sequence as follows. The first `k` terms are all `1`. The n^{th} term, for `n >= k`, is the sum of `k` previous terms in the sequence. For example, the first five terms of the `3`-bonacci sequence are `1, 1, 1, 3, 5`.

Given `n` and `k`, write a function which returns the n^{th} term (`0`-indexed) of the `k`-bonacci sequence. Since the answer may be quite large, return it as a string.

Example

For `k = 3` and `n = 4`, the output should be `kbonacci(k, n) = "5"`.

Input/Output

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

  The value `k` defining the k-bonacci sequence; i.e., the degree of the recurrence.

  Guaranteed constraints:

  $1 \le k \le 10^3$.

- **[input] integer n**

  The term of the k-bonacci sequence to return.

  Guaranteed constraints:

  $1 \le n \le 25000$.

- **[output] string**

  The n^{th} number of the k-bonacci sequence, returned as a string.

[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;
}
```