A better way of computing $F(n)$

Input: $n \in \mathbb{Z}^+$

Output: We will return $F(n)$, the nth Fibonacci number.

- If $n \leq 2$ return 1. Else:
  - $FIB[1] := 1$
  - $FIB[2] := 1$
  - For $i = 3$ up to n, DO
    - $FIB[i] := FIB[i-1] + FIB[i-2]$
  - Return $FIB[n]$