Climbing Stairs

This problem is essentially the Fibonacci sequence:

- To reach step n, you could:
  - come from step n-1 with a single step, or
  - come from step n-2 with a double step.
- So the recurrence is:

  ways(n) = ways(n-1) + ways(n-2).
- Base cases:
  - ways(1) = 1 (just one step).
  - ways(2) = 2 (two ways: 1+1, or 2).

Thus, the problem reduces to computing the (n-th) Fibonacci number with those bases.

Complexity:

- Time: O(n)
- Space: O(1) (just two variables).