C Programming Basics – Spot Question

A person, planning to climb a staircase with 'n' stairs from ground, is capable of skipping a maximum of 2 stairs at a time (i.e. he/she either can climb one stair at a time or can skip a stair or two). Implement a function (numWaysToClimbUp) to compute the number of possible ways the person can climb up the staircase.

<u>Function Prototype: int numWaysToClimbUp(int n)</u>

Sample:

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input: 0, output: 1 (ground) input: 1, output: 1 (ground \rightarrow 1) input: 2, output: 2 (ground \rightarrow 1) \rightarrow 2 / ground \rightarrow 2) input: 3, output: 4 (ground \rightarrow 1 \rightarrow 2 \rightarrow 3 / ground \rightarrow 2 \rightarrow 3 / ground \rightarrow 3) input: 10, output: 274
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