

... explanation might seem like overkill for such a simple problem. ...  
... problems much easier. Going through the problems in this chapter, many of which use dynamic programming, will help solidify  
... our understanding.

**Additional Reading:** Proof by Induction (pg 519).

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## Interview Questions

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**8.1 Triple Step:** A child is running up a staircase with  $n$  steps and can hop either 1 step, 2 steps, or 3 steps at a time. Implement a method to count how many possible ways the child can run up the stairs.

*Hints: #152, #178, #217, #237, #262, #359*

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