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**Daily Coding Problem: Problem #12 [Hard]**

1 message

**Daily Coding Problem** <founders@dailycodingproblem.com>

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To: kyle.everett.lang@gmail.com

**Daily Coding Problem**

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Good morning! Here's your coding interview problem for today.

This problem was asked by Amazon.

There exists a staircase with  $N$  steps, and you can climb up either 1 or 2 steps at a time. Given  $N$ , write a function that returns the number of unique ways you can climb the staircase. The order of the steps matters.

For example, if  $N$  is 4, then there are 5 unique ways:

- 1, 1, 1, 1
- 2, 1, 1
- 1, 2, 1
- 1, 1, 2
- 2, 2

What if, instead of being able to climb 1 or 2 steps at a time, you could climb any number from a set of positive integers  $X$ ? For example, if  $X = \{1, 3, 5\}$ , you could climb 1, 3, or 5 steps at a time.

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