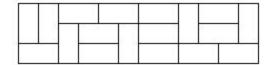
## **E** // Fitting The Pieces Together

When Zhehai goes to the store he finds that he needs to know how to fit the most presents into his cart. He has a 3xN size cart and each gift takes up a space of 2x1. How many different ways can he completely fill his cart?



## **Input Specification:**

The first line will contain of a positive integer N.

## **Output Specification:**

Output the number of different tilings possible.
Sample Input 1:
2
Sample Output 1:
3
Explanation:

Sample Input 2:

5

**Sample Output 2:** 

0