

Staircase

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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 to the stairs.

You need to return number of possible ways W.

Input format :

Integer N

Output Format :

Integer W

Constraints :

$1 \leq N \leq 30$

Sample Input 1 :

4

Sample Output 1 :

7

Sample Input 2 :

5

Sample Output 2 :

13