Madhav and Stairs

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Madhav is running down a staircase with **n** steps. He can hop either 1 step, 2 steps or 3 steps at a time. Madhav wants to counts the number of ways in which he can go down the stairs.
Since Madhav is busy making ProSort for FooBar so he asked you for help.

Input

First line contains a single integer **n** $(1 \leq \mathbf{n} \leq 30)$ which denotes the total number of steps.

Output

Print a single integer denoting the number of ways in which Madhav can climb down the stairs.

Example

standard input	standard output
4	7