



# Nemo's Win

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Problem

Submissions

Discussions

Marlin is distraught! First he lost Nemo, now he missed his football game! He arrives at the end to see the final score, but he missed how the final score was obtained. Marlin knows that Nemo will want to talk about the game, so Marlin would like to know how many different ways (ignoring order) that the final score was reached. There are four different scoring plays possible:

- A touchdown (6 points)
- A touchdown with extra point (7 points)
- A touchdown with two point conversion (8 points)
- A field goal (3 points)
- A safety (2 points)

You can't score an extra point or a two point conversion by itself - they must happen immediately after a touchdown. For example, the score of 10 points can be reached in 5 ways (ignoring order):

- A touch down and two safeties
- A touchdown with extra point, and a field goal
- A touchdown with two point conversion, and a safety
- Two field goals and Two safeties.
- Five safeties

Help Marlin find the number of different ways Nemo's score was reached!

<https://drive.google.com/open?id=0BxxolsFkwnDqTkg4NVVQNmZ1Zlk>

## Input Format

A single integer  $n$ , the number of points that Nemo's team scored

## Constraints

$0 \leq n \leq 300$   $0 \leq k \leq 1,000,000$

## Output Format

A single integer  $k$ , the number of ways that Nemo's team score could be obtained (ignoring order).

## Sample Input 0

## Sample Output 0

5

## Sample Input 1

83

## Sample Output 1



1728

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Submissions: 11

Max Score: 3

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BASH



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Run Code

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