Problem S1: Good Fours and Good Fives

Problem Description

Your task is to help Finn determine the number of ways that a number can be written as a sum of fours and fives.

Input Specification

The input consists of one line containing a number N.

The following table shows how the available 15 marks are distributed.

Marks Awarded	Bounds on N	Additional Constraints
3 marks	$1 \le N \le 10$	None
2 marks	$1 \le N \le 100\ 000$	N is a multiple of 4
2 marks	$1 \le N \le 100\ 000$	N is a multiple of 5
8 marks	$1 \le N \le 1\ 000\ 000$	None

Output Specification

Output the number of unordered sums of fours and fives which form the number N. Output 0 if there are no such sums of fours and fives.

Sample Input 1

14

Output for Sample Input 1

1

Explanation of Output for Sample Input 1

This is one of the examples in the problem description.

Sample Input 2

40

Output for Sample Input 2

3

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Explanation of Output for Sample Input 2

This is one of the examples in the problem description.

Sample Input 3

6

Output for Sample Input 3

C

Explanation of Output for Sample Input 3

There is no way to use a sum of fours and fives to get 6.

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