B. Counting Solutions of an Integer Equation

Problem

Given, **n**, count the number of solutions to the equation **x+2y+2z=n**, where **x,y,z,n** are non negative integers.

The Input

There is at most 1500 inputs. Each input is **n** (**n**<1000001) on a single line.

The Output

For each input, output the number of solutions on a single line.

Sample Input

2
3

Sample Output

3
3

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