

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

Problem setter: Josh Bao