

# DWITE '10 R3 #3 - Dominos Tiling

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**Time limit:** 1.0s    **Memory limit:** 64M

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## DWITE Online Computer Programming Contest, December 2010, Problem 3

Counting the number of tilings of different sized boards with dominoes (i.e. 2 by 1 rectangles) can be a pretty difficult task. However, here you must only determine the number of ways to tile boards of height 3 and some width.

The input will contain 5 lines, each containing an integer  $0 \leq N \leq 30$ , the width of the board you want to tile with dominoes.

The output will contain 5 lines, where each line represents the number of ways to tile a  $3 \times N$  board with dominoes modulo 1 000 000 (i.e. The output is the remainder you get when you divide the number of ways to tile a  $3 \times N$  board with dominoes by 1 000 000).

## Sample Input

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```
1
4
3
25
13
```

## Sample Output

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```
0
11
0
0
0
```

Problem Resource: [DWITE](#)