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The Virtual Learning Environment for Computer Programming

## Paradoxical tests <br> P89942_en

Desè Concurs de Programació de la UPC - Semifinal (2012-06-30)
Consider the following test:
What is the probability that if you choose at random one answer of this test, your answer will turn out to be correct?
a) $2 / 5$
b) $3 / 5$
c) $3 / 5$
d) $2 / 5$
e) $3 / 5$

As you can see, all answers above may be considered correct, but none of them is 1 !
Given the number of answers $n$ of a test, how many such paradoxical tests exist? Note that the order of the answers is relevant. For instance, a test with d) $3 / 5$ and e) $2 / 5$ would be considered different to the one above.

## Input

Input consists of several cases, each one with a number $n$ between 1 and 1000 .

## Output

For every $n$, print the number of paradoxical tests with $n$ answers modulo 1006133.

## Sample input

1
3
3
5
203
1000

```
Sample output
0
3
15
1006132
707988
```


## Problem information

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