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## Paradoxical tests

P89942\_en

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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.

<b>Sample input 1</b>	<b>Sample output 1</b>
1	0
3	3
5	15
203	1006132
1000	707988

### Problem information

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