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The Virtual Learning Environment for Computer Programming

Paradoxical tests

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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.

Sample input	Sample output
1	0
3	3
5	15
203	1006132
1000	707988

Problem information

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