# Come on, it is just a power of two!

This problem statement will not bore you down. You will be given a power of two. Just output the last digit of the number. Easy, right?

#### Input

There are multiple test cases. Each test case is represented in a single line. A test case consists of a single integer **e** (0 <= e <= 9999999999), the power of two.

### Output

For each test case, print in a single line its answer. That is, the last digit of the number 2<sup>e</sup>.

## Example

Input: 0

- •
- 1
- 2
- 3
- 4

#### Output:

- 1
- 2
- 4
- -
- 8
- 6