# 10843 Anne's game

Lily: "Chantarelle was part of my exotic phase."

Buffy: "It's nice. It's a mushroom."

Lily: "It is? That's really embarrassing."

Buffy: "Well, it's an exotic mushroom, if that's any comfort."

Joss Whedon, "Anne".

A little girl whose name is Anne Spetring likes to play the following game. She draws a circle on paper. Then she draws another one and connects it to the first circle by a line. Then she draws another and connects it to one of the first two circles by a line. She continues this way until she has n circles drawn and each one connected to one of the previously drawn circles. Her circles never intersect and lines never cross. Finally, she numbers the circles from 1 to n in some random order.

How many different pictures can she draw that contain exactly n circles? Two pictures are different if one of them has a line connecting circle number i to circle number j, and the other picture does not.

#### Input

The first line of input gives the number of cases, N. N test cases follow. Each one is a line containing n ( $0 < n \le 100$ ).

### Output

For each test case, output one line containing 'Case #x:' followed by X, where X is the remainder after dividing the answer by 2000000011.

## Sample Input

3

1

2

3

# Sample Output

Case #1: 1 Case #2: 1 Case #3: 3