## Problem AL. Hodja Nasreddin

**Time limit** 1000 ms **Mem limit** 131072 kB

Hodja Nasreddin is located in the upper left corner of the table of the size  $\mathbf{n} \times \mathbf{n}$ , and his donkey is located in the lower right corner. Hodge goes only to the right or down, a donkey goes only to the left or up.

In how many ways they can meet in one cell? (Two ways are considered different if Hodja or donkey has different routes).

## Input

One integer  $n (1 \le n \le 50)$ .

## Output

Print one number - the number of ways Hodja and donkey can meet. This number can be big, so print its value modulo 9929.

## Sample 1

Input	Output
3	30