

# LOGIC

Given a sequence of natural numbers.

Find N'th term of this sequence.

$a_1=2, a_2=4, a_3=11, a_4=36, a_5=147, a_6=778 \dots \dots \dots a_N$ .

## Input

Only one natural number  $7 \leq N < 20$ .

## Output

One natural number. N'th term of the sequence.

## Example

**Input:**

10

**Output:**

3629814