## Threebonacci

## in English

A number belongs to Threebonacci sequence if it belongs to Fibonacci (consider 1 as being the first number in this sequence) sequence and satisfy at least one criteria below:

1 - The number representation contains at least one digit 3.
2 - The number is a multiple of 3.

## Input

Each test case contains an integer $N(1 \leq N \leq 60)$. Input ends with EOF.

## Output

For each test case print a single line containing the Nth term in Threebonacci sequence.

## Example 1

Input:
1
3

## Output:

3
21

