

Day 1 Div C. Dynamic Programming

🕒

9 Mar 2019, 20:46:30

start: 9 Mar 2019, 17:00:00

finish: 9 Mar 2019, 21:00:00

till the end: 00:13:27

start: 9 Mar 2019, 17:00:00

end: 9 Mar 2019, 21:00:00

duration: 04:00:00

G. Stones

Time limit	1 second
Memory limit	64Mb
Input	standard input or input.txt
Output	standard output or output.txt

N stones lie on a table. There are tow players. On each move, player can take:

- 1 or 2 stones if N is divided by 3;
- 1 or 3 stones if $N - 1$ is divided by 3;
- 1, 2 or 3 stones if $N - 2$ is divided by 3;

Each move can be done only if there are enough stones to take. The player who cannot move, lose the game.

The question is: which player has an optimal strategy to win?

Input format

First line contains number N ($1 \leq N \leq 100$).

Output format

Print 1 or 2 - number of player winning the game.

Sample

Input	Output
1	1

Language

GNU c11 4.9

▼

Type here

Send file

1

Submit

Previous

Next