Pui and Chess

Assignment 1
Computer Programming
Due date: 10 September, 2018

Description: Pui and Chui are very competitive. They love defeating each other in chess. Recently, Pui won with a streak of 10 and Chui is very annoyed. He presents Pui with a question, 'How many bishops can be placed on a chessboard without threatening each other?'. Pui has no idea how to solve this and needs your urgent help.

Input

Input has single line with 1 integer N, the size of the chessboard.

Output

Print the maximum number of bishops that can be placed on the chessboard without threatening each other

Constraints

N is an integer between 1 and 10^{16} (Both Inclusive).

Sample Test Case

Input	Output
1 2	1 2