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Game

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 32768/32768 K (Java/Others)
Total Submission(s): 0 Accepted Submission(s): 0

Problem Description

Alice and Bob are playing a game.

The game is played on a set of positive integers from 1 to n .

In one step, the player can choose a positive integer from the set, and erase all of its divisors from the set. If a divisor doesn't exist it will be ignored.

Alice and Bob choose in turn, the one who cannot choose (current set is empty) loses.

Alice goes first, she wanna know whether she can win. Please judge by outputting 'Yes' or 'No'.

Input

There might be multiple test cases, no more than 10. You need to read till the end of input.

For each test case, a line containing an integer n . ($1 \leq n \leq 500$)

Output

A line for each test case, 'Yes' or 'No'.

Sample Input

1

Sample Output

Yes

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Hangzhou Dianzi University Online Judge 3.0
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