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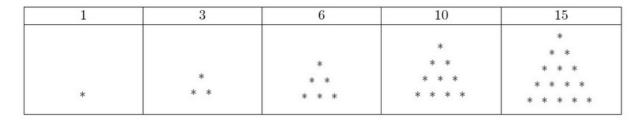
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# **Triangular Numbers**

Problem Submissions Leaderboard Discussions

Triangular Numbers are positive integer numbers such that they represent an amount of "dots" with which you can form a compact equilateral triangle of dots.

The first five triangular numbers are:



For this problem, you must create a program that determines if a given number n is triangular or not.

#### **Input Format**

Input may contain several test cases. Each test case is given in a line of its own, and contains an integer n ( $1 \le n \le 16 \cdot 10^{18}$ ). Input ends with a test case in which n is zero, and it must not be processed.

## **Constraints**

$$1 \leq n \leq 16 \cdot 10^{18}$$

## **Output Format**

For each test case given in the input, your program must print YES or NO, indicating whether n is a triangular number or not. There must be a single line of output for each test case.

# Sample Input 0

1 15 16 101 159999999994386249876

#### Sample Output 0

YES YES NO NO YES

f in
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Difficulty: Medium
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