# A. Funky Numbers

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

As you very well know, this year's funkiest numbers are so called triangular numbers (that is, integers that are representable as , where $k$ is some positive integer), and the coolest numbers are those that are representable as a sum of two triangular numbers.

A well-known hipster Andrew adores everything funky and cool but unfortunately, he isn't good at maths. Given number $n$, help him define whether this number can be represented by a sum of two triangular numbers (not necessarily different)!

## Input

The first input line contains an integer $n$ $(1 \le n \le 10^9)$.

## Output

Print "YES" (without the quotes), if $n$ can be represented as a sum of two triangular numbers, otherwise print "NO" (without the quotes).

### Examples

| input |
| --- |
| 256 |
| **output** |
| YES |

| input |
| --- |
| 512 |
| **output** |
| NO |

## Note

In the first sample number .

In the second sample number $512$ can not be represented as a sum of two triangular numbers.