

## B. Economy Game

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Kolya is developing an economy simulator game. His most favourite part of the development process is in-game testing. Once he was entertained by the testing so much, that he found out his game-coin score become equal to 0.

Kolya remembers that at the beginning of the game his game-coin score was equal to  $n$  and that he have bought only some houses (for 1 234 567 game-coins each), cars (for 123 456 game-coins each) and computers (for 1 234 game-coins each).

Kolya is now interested, whether he could have spent all of his initial  $n$  game-coins buying only houses, cars and computers or there is a bug in the game. Formally, is there a triple of non-negative integers  $a$ ,  $b$  and  $c$  such that  $a \times 1\,234\,567 + b \times 123\,456 + c \times 1\,234 = n$ ?

Please help Kolya answer this question.

### Input

The first line of the input contains a single integer  $n$  ( $1 \leq n \leq 10^9$ ) — Kolya's initial game-coin score.

### Output

Print "YES" (without quotes) if it's possible that Kolya spent all of his initial  $n$  coins buying only houses, cars and computers. Otherwise print "NO" (without quotes).

### Examples

<b>input</b>
1359257
<b>output</b>
YES
<b>input</b>
17851817
<b>output</b>
NO

### Note

In the first sample, one of the possible solutions is to buy one house, one car and one computer, spending  $1\,234\,567 + 123\,456 + 1234 = 1\,359\,257$  game-coins in total.

### Codeforces Round #357 (Div. 2)

Finished

### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

### → Problem tags

brute force

No tag edit access

### → Contest materials

- Tutorial