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 ($1 \le n \le 10^9$) — 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

input
1359257
output
YES

input
17851817
output
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.