Problem E. 3-smooth Numbers

Time limit 2000 ms
Mem limit 1048576 kB

Problem Statement

You are given a positive integer N. If there are integers x and y such that $N = 2^x 3^y$, print `Yes`; otherwise, print `No`.

Constraints

- $1 \leq N \leq 10^{18}$
- N is an integer.

Input

The input is given from Standard Input in the following format:

```
N
```

Output

Print a single line containing `Yes` if there are integers x and y that satisfy the condition, and `No` otherwise.

Sample 1

Input	Output
324	Yes

For $x = 2, y = 4$, we have $2^x 3^y = 2^2 3^4 = 4 \times 81 = 324$, so the condition is satisfied. Thus, you should print `Yes`.

Sample 2

Input	Output
5	No

There are no integers x and y such that $2^x 3^y = 5$. Thus, you should print `No`.

Sample 3

Input	Output
32	Yes

For $x = 5, y = 0$, we have $2^x 3^y = 32 \times 1 = 32$, so you should print `Yes`.

Sample 4

Input	Output
37748736	Yes