Leapyear

Given a positive year (AC) say if it's a leap-year (february has 29 days) or not.

A leap-year is multiple of 4, but not multiple of 100. The only exception is when the year is multiple of 400, in that case is leap although it's also multiple of 100. For example, 1900 and 2100 isn't leap, while 2000 is.

Input

A number Y, the year.

Output

A line with the text "YES" if it's a leap-year, or "NO" otherwise.

Example

Input:
etc.

Output:
etc.