New Zealand Programming Contest 2024

PROBLEM A **LEAP YEARS** **3 POINTS**

It is a tradition of the NZPC, that each leap year we have a leap year problem. So, 2024 being a leap year, here it such a problem!

You know, of course, that if a year is divisible by 4 and not by 100 it is a leap year, unless it is divisible by 400 when it is a leap year. A year that is not a leap year is a common year.

In this problem you will be given a list of years and have to report whether each one is a leap year or a common year. You must put your answer in a sentence which has the correct tense!

Input

The first line contains a single positive integer, N, which is the number of years in the list. N will be no greater than 100.

A list of N years follows, each year on a separate line. Years will be between 1582 and 2299 inclusive, one year per line.

Output

For each year in the list, output a single line which contains, in order:

The year

"`was a`", "`is a`" or "`will be a`" as appropriate.

"`common year`" or "`leap year`" as appropriate, followed by a full stop.

Sample Input

```
5
2016
1987
2025
2023
2024
```

Output for Sample Input

```
2016 was a leap year.
1987 was a common year.
2025 will be a common year.
2023 was a common year.
2024 is a leap year.
```