Interactive Coding Exercises

Exercise 3 - Leap Year

Overview | My Submissions/Test Runs

💪 This is a Difficult Challenge 💪

Instructions

Write a program that works out whether if a given year is a leap year. A normal year has 365 days, leap years have 366, with an extra day in February. The reason why we have leap years is really fascinating, this video does it more justice:

https://www.youtube.com/watch?v=xX96xng7sAE

This is how you work out whether if a particular year is a leap year.

on every year that is evenly divisible by 4

except every year that is evenly divisible by 100

unless the year is also evenly divisible by 400

e.g. The year 2000:

2000 ÷ 4 = 500 (Leap)

2000 ÷ 100 = 20 (Not Leap)

2000 ÷ 400 = 5 (Leap!)

So the year 2000 is a leap year.

But the year 2100 is not a leap year because:

2100 ÷ 4 = 525 (Leap)

2100 ÷ 100 = 21 (Not Leap)

2100 ÷ 400 = 5.25 (Not Leap)

Warning your output should match the Example Output format exactly, even the positions of the commas and full stops.

Example Input 1

```
2400
```

Example Output 1

```
Leap year.
```

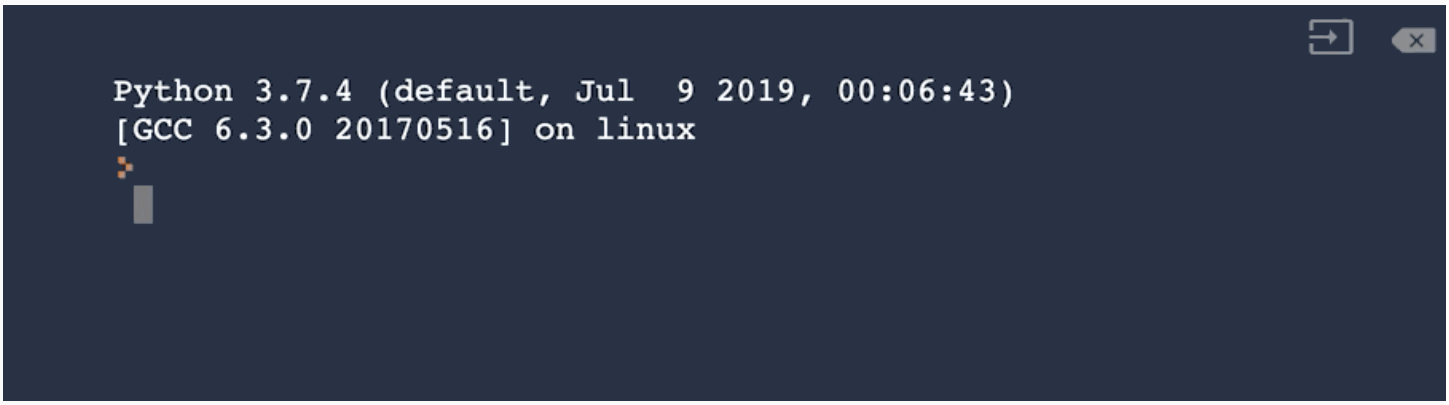
Example Input 2

```
1989
```

Example Output 2

```
Not leap year.
```

e.g. When you hit **run**, this is what should happen:



Hint

1. Try to visualise the rules by creating a flow chart on www.draw.io
2. If you really get stuck, you can see the flow chart I created:

https://bit.ly/36BjS2D

Test Your Code

Check your code is doing what it is supposed to. When you're happy with your code, click submit to check your solution.

Solution

https://repl.it/@appbrewery/day-3-3-solution

OPEN ASSIGNMENT WORKSPACE