



Write a function ★

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An extra day is added to the calendar almost every four years as February 29, and the day is called a leap day. It corrects the calendar for the fact that our planet takes approximately 365.25 days to orbit the sun. A leap year contains a leap day.

In the Gregorian calendar, three conditions are used to identify leap years:

- The year can be evenly divided by 4, is a leap year, unless:
 - The year can be evenly divided by 100, it is NOT a leap year, unless:
 - The year is also evenly divisible by 400. Then it is a leap year.

This means that in the Gregorian calendar, the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years. [Source](#)

Task

Given a year, determine whether it is a leap year. If it is a leap year, return the Boolean True, otherwise return False.

Note that the code stub provided reads from STDIN and passes arguments to the `is_leap` function. It is only necessary to complete the `is_leap` function.

Input Format

Read *year*, the year to test.

Constraints

$$1900 \leq \text{year} \leq 10^5$$

Output Format

The function must return a Boolean value (True/False). Output is handled by the provided code stub.

Sample Input 0

1990

Sample Output 0

False

Explanation 0

1990 is not a multiple of 4 hence it's not a leap year.

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Language

Python 3



```
1 def is_leap(year):
```

```
2     leap = False
3
4     # Write your logic here
5     if year % 4 == 0:
6         if year % 100 == 0:
7             if year % 400 == 0:
8                 leap = True
9             else:
10                leap = True
11
12    return leap
13
14    year = int(input())
15    print(is_leap(year))
```

Line: 8 Col: 28

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57%

55/70



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✓ Test case 0

Compiler Message

✓ Test case 1

Success

- ✔ Test case 2 
- ✔ Test case 3 
- ✔ Test case 4
- ✔ Test case 5 

Hidden Test Case

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