

Write a function

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Problem

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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

$1900 \leq year \leq 10^5$

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.

Author shashank21j

Difficulty Medium

Max Score 10

Submitted By 1070250

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Language

Python 3



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

Line: 1 Col: 1

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Test against custom input

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You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Input (stdin)

Download

1 1990

Your Output (stdout)

1 False

Expected Output

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1 False