

# 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

$1900 \leq year \leq 10^5$

### 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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```
1 def is_leap(year):
2     leap = True
3     notleap= False
4
5
6     if year%4==0:
7         if year%100==0:
8             if year%400==0:
9                 return leap
10            else:
11                return notleap
12        else:
13
14            return leap
```

```
15
16     else:
17         return notleap
18
19 year = int(input())
20 print(is_leap(year))
```

Line: 1 Col: 1

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