# Instructions

In the starting code, you'll find the solution from the Leap Year challenge. First, convert this function is\_leap() so that instead of printing "Leap year." or "Not leap year." it should **return** True if it is a leap year and **return** False if it is not a leap year.

You are then going to create a function called days\_in\_month() which will take a **year** and a **month** as inputs, e.g.

days\_in\_month(year=2022, month=2)

And it will use this information to work out the **number of days in the month**, then **return** that as the **output**, **e.g.:**

28

The List month\_days contains the number of days in a month from January to December for a non-leap year. A leap year has 29 days in February.

**Hint**

Look at the function call at the bottom of the code to see the positional arguments. The order is very important.

Feel free to choose your own parameter names.

Remember that month\_days is a List and Lists in Python start at position 0. So the number of days in January is month\_days[0]

Be careful with indentation.

**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.

# Code:

def is\_leap(year):

  if year % 4 == 0:

    if year % 100 == 0:

      if year % 400 == 0:

        return True

      else:

        return False

    else:

      return True

  else:

    return False

def days\_in\_month(year,month):

    month\_days = [31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]

    if is\_leap(year):

        month\_days[1] = 29

    return month\_days[month - 1]

#🚨 Do NOT change any of the code below

year = int(input("Enter a year: "))

month = int(input("Enter a month: "))

days = days\_in\_month(year, month)

print(days)

# Solution

<https://repl.it/@appbrewery/day-10-1-solution>

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