Find the year of the given Anniversary is leap year or not. If leap year then print the next Anniversary, if not leap year then print the previous Anniversary.

Sample Input:

Enter Date: 04/11/1947 Sample Output:

Given Anniversary Year: Non Leap Year. Anniversary Date: 04/11/1946

CODE:

from datetime import datetime, timedelta

def is\_leap\_year(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 find\_anniversary\_date(input\_date):

date\_format = "%m/%d/%Y"

anniversary\_date = datetime.strptime(input\_date, date\_format)

anniversary\_year = anniversary\_date.year

if is\_leap\_year(anniversary\_year):

print("Given Anniversary Year: Leap Year.")

next\_anniversary = anniversary\_date + timedelta(days=366)

print("Next Anniversary Date:", next\_anniversary.strftime(date\_format))

else:

print("Given Anniversary Year: Non Leap Year.")

previous\_anniversary = anniversary\_date - timedelta(days=365)

print("Previous Anniversary Date:", previous\_anniversary.strftime(date\_format))

# Example usage:

input\_date = input("Enter Date (MM/DD/YYYY): ")

find\_anniversary\_date(input\_date)

OUTPUT:

Enter Date (MM/DD/YYYY): 04/11/1947

Given Anniversary Year: Non Leap Year.

Previous Anniversary Date: 04/11/1946

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