

Practice Quiz: Understanding the Problem  TOTAL POINTS 5		
more ir	a user reports that an "application doesn't work," what is an appropriate follow-up question to gather aformation about the problem?  the server plugged in?  ny do you need the application?  you have a support ticket number?  nat should happen when you open the app?  Correct  Awesome! Asking the user what an expected result should be will help you gather more information to understand and isolate the problem.	1 / 1 point
The At	e observer effect. est environment. e root cause. event viewer.	1/1 point
upper v	Correct  Right on! The observer effect is when just observing a phenomenon alters the phenomenon.  Impare_strings function is supposed to compare just the alphanumeric content of two strings, ignoring we lower case and punctuation. But something is not working. Fill in the code to try to find the problems,	1/1 point
1 2 * 3 3 4 5 6 7 7 8 9 100 111 122 13 3 144 15 166 167 18 19 20 21 1.? Trut [.? Trut [.? Trut [.? Trut [.? Trut [.? Trut [ Trut]	<pre>string1 = re.sub(punctuation, r"", string1) string2 = re.sub(punctuation, r"", string2)  #DEBUG CODE GOES HERE print(punctuation)  return string1 == string2  print(compare_strings("Have a Great Day!", "Have a great day?")) # True print(compare_strings("It's raining again.", "its raining, again")) # True print(compare_strings("Learn to count: 1, 2, 3.", "Learn to count: one, two, three.")) # False print(compare strings("They found some body.", "They found somebody.")) # False  1,;;\-'] e !,;;\-'] se !,;;\-'] se !,;;\-'] se !,;;\-']</pre>	
~	Correct  Great job! These bugs don't stand a chance with you around!	,
	o we verify if a problem is still persisting or not?	1 / 1 point

Attempt to trigger the problem again by following the steps of our reproduction case

 Repeatedly ask the user Check again later



Woohoo! If we can recreate the circumstances of the issue, we can verify whether the problem continues to

5. The datetime module supplies classes for manipulating dates and times, and contains many types, objects, and methods. You've seen some of them used in the dow function, which returns the day of the week for a specific date. We'll use them again in the next\_date function, which takes the date\_string parameter in the format of "year-month-day", and uses the add\_year function to calculate the next year that this date will occur (it's 4 years later for the 29th of February during Leap Year, and 1 year later for all other dates). Then it returns the value in the same format as it receives the date: "year-month-day".

Can you find the error in the code? Is it in the next\_date function or the add\_year function? How can you determine if the add\_year function returns what it's supposed to? Add debug lines as necessary to find the problems, then fix the code to work as indicated above.

```
import datetime
from datetime import date

date add_year(date_obj):
    try:
        new date_obj = date_obj.replace(year = date_obj.year + 1)
    rexcept ValueError:
    # This gets executed when the above method fails,
    # which means that we're making a Leap Year calculation
    new date_obj = date_obj.replace(year = date_obj.year + 4)
    return new_date_obj

def next_date_date_string):
    # Convert the argument from string to date object
    date_obj = datetime.datetime.strptime(date_string, r"%Y-%m-%d")
    next_date_obj = add_year(date_obj)

## Convert the datetime object to string,
## Convert the datetime object to string,
## in the format of "yyyy-mm-dd"
    return next_date_ining = next_date_obj.strftime("%Y-%m-%d")
    return next_date_string

today = date.today() # Get today's date
print(next_date(str(today)))

## Should return a year from today, unless today is Leap Day

Run

Print(next_date("2021-01-01")) # Should return 2022-01-01
    print(next_date("2021-01-01")) # Should return 2022-02-29

2021-04-23
2022-01-01
2024-02-29
```

## ✓ Correct

Excellent! Debugging multiple functions is more challenging than working with just one function, and you've done it!

1 / 1 point