Week 4: Good Programming Practices > 7. Testing and Debugging > Exercise 4

On Thursday, February 16th at 6:00AM EST, UTC-5, we will be conducting a brief database maintenance. The event should last about 5 minutes.



MITx: 6.00.1x Introduction to Computer Science and Programming Us...

<u>Help</u>



Exercise 4

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Welcome to the edX Platform

Exercise 4

1/1 point (graded)

Entrance Survey

ESTIMATED TIME TO COMPLETE: 4 minutes

Consider the following function definition:

- ▶ Download Python and Get Motivated!
- Week 1: Python Basics
- Week 2: Simple **Programs**
- ▶ Week 3: Structured <u>Types</u>
- ▼ Week 4: Good

Programming Practices

7. Testing and **Debugging**

Finger Exercises

8. Exceptions and Assertions

Problem Set 4

Finger Exercises

Prohlem Set due Feh

23, 2017 15:30 PST

def union(set1, set2): set1 and set2 are collections of objects, each of which might be empty. Each set has no duplicates within itself, but there may be objects that

are in both sets. Objects are assumed to be of the same type.

This function returns one set containing all elements from

both input sets, but with no duplicates. if len(set1) == 0: return set2 elif set1[0] in set2: return union(set1[1:], set2) else: return set1[0] + union(set1[1:], set2)

Assume that union is called with strings as arguments.

Please select the best glass box test suite for the function union from the following options:

```
Test Suite A: union('',''), union('','a'), union('','ab'),
   union('a',''), union('a','b'), union('c','ab'),
   union('de',''), union('ab','c'), union('cd','ab')
```



- ▶ Midterm Exam
- Week 5: Object **Oriented Programming**
- Sandbox

```
Test Suite B: union('abc',''), union('abc','a'),
   union('abc', 'ab'), union('abc', 'd'),
   union('abc', 'abcd')
Test Suite C: [union('', 'abc')], [union('a', 'abc')],
   union('ab','abc') , union('abc','abc')
```

Test Suite D: [union('', 'abc')], [union('a', 'abc')], union('ab','abc'), union('d','abc')

Submit

✓ Correct (1/1 point)

Exercise 4 Topic: Lecture 7 / Exercise 4

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