Course / Unit 4: Good Programming Practices / 7. Testing and Debugging

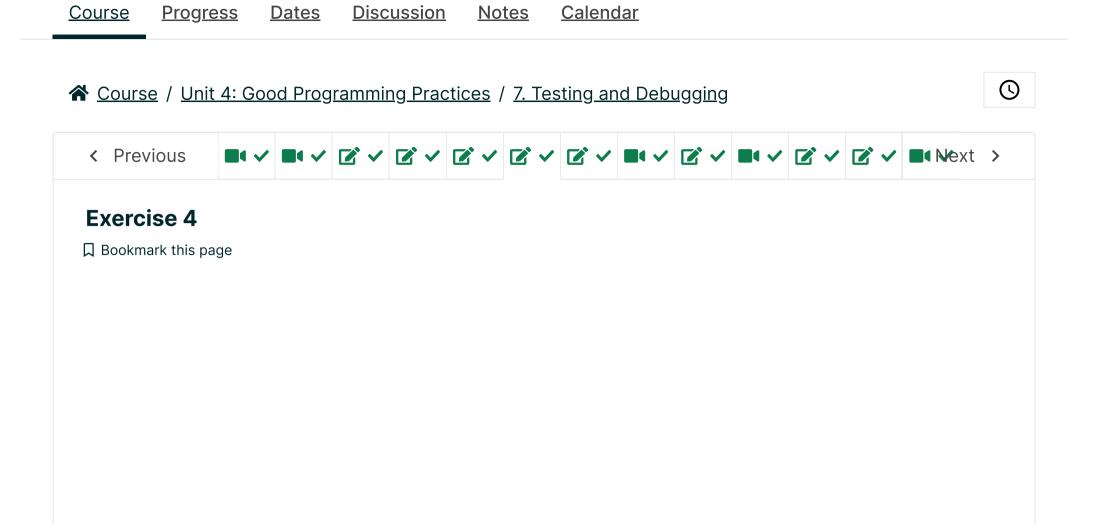Previous   Next

Exercise 4

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Finger Exercises due Oct 27, 2022 07:30 +08   Completed

Exercise 4

1/1 point (graded)
ESTIMATED TIME TO COMPLETE: 4 minutes

Consider the following function definition:

```python
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')`

- ○ 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')`

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Exercise 4

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