测验, 10 个问题

1 point

1。

Consider this code:

Which set of test cases is the *best* choice of tests cases for this function? (Think about the **Boundaries** category for choosing test cases.)

- guess refers to "higher" and actual refers to "lower"
 - guess refers to "correct" and actual refers to "correct"
 - guess refers to "lower" and actual refers to "higher"
- guess refers to a value that is less than the value referred to by actual
 - guess refers to a value equal to the value referred to by actual
 - guess refers to a value that is greater than the value referred to by actual
- guess and actual refer to negative values
 - guess and actual refer to zero
 - guess and actual refer to positive values
- guess and actual refer to odd values
 - guess and actual refer to zero
 - guess and actual refer to non-zero even values

1 point

2. Week 2 Exercise this code:

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Which of these sets of values for **L** is the *best* choice of tests cases for this function? (Think about the **Size** category for choosing test cases.)

```
• ["one", "two"]
     • ["one", "two", "three"]
     • ["one", "two", "three", "four"]
    • []
• ["one"]
     • ["one", "two"]
     • ["one", "two", "three", "four"]
     • []
     • ["one"]
    • []
     • ["one"]
     • ["one", "two"]
     • ["one", "two", "three"]
     • ["one", "two", "three", "four"]
     • ["one", "two", "three", "four", "five"]
     • ["one", "two", "three", "four", "five", "six"]
```

• More tests like this, with lists up to 20 items long.

1 point

Consider this code:

Week 2 Exercise

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```
1  def is_preschooler(age):
2    """ (int) -> bool
3
4    Precondition: age >= 0
5
6    Return True if and only if age is between 3 and 5
7    inclusive.
8
9    >>> is_preschooler(4)
10    True
11    """
```

Which set of test cases is the *best* choice of tests cases for this function? (Think about which test case category you might want to consider.)

- one number between 0 and 2
 - one number between 3 and 5
 - one number over 5
- 0 or 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - one number over 6
- one number under 0
 - 0
 - one number over 0
- one number between 0 and 2
 - 4
 - one number over 5

1 point

4.

Consider this code:

Week 2 Exercise

测验, 10 个问题

```
1  def count_occurrences(s, ch):
2    """ (str, str) -> int
3
4    Precondition: len(ch) == 1
5
6    Return the number of occurrences of ch in s.
7
8    >>> count_occurrences("hello", "l")
9    2
10    """
```

Which of these sets of values for **s** and **ch** is the *best* choice of tests cases for this function? (There are several test case categories for this question, including at least **Size** and **Dichotomies**.)

- s refers to ", ch refers to 'a'
 - s refers to 'a', ch refers to 'a'
 - s refers to 'aaaaaa', ch refers to 'a'
- s refers to '', ch refers to 'a'
 - s refers to 'a', ch refers to 'a'
 - s refers to '1', ch refers to '1'
 - s refers to 'a', ch refers to 'b'
 - s refers to 'abc', ch refers to 'b'
 - s refers to '123', ch refers to '2'
 - s refers to 'abc', ch refers to 'd'
 - s refers to 'abcabca', ch refers to 'a'
- s refers to ", ch refers to 'a'
 - s refers to 'a' ch refers to 'a'
 - s refers to 'a', ch refers to 'b'
 - s refers to 'abc', ch refers to 'b'
 - s refers to 'abc', ch refers to 'd'
 - s refers to 'abcabca' ch refers to 'a'
- s refers to ", ch refers to 'b'
 - s refers to 'a', ch refers to 'b'
 - s refers to 'aaaaaa', ch refers to 'b'

1 point

Consider this code:

Week 2 Exercise

测验, 10 个问题

```
def can_vote(age):
         """ (int) -> bool
2
3
4
        Precondition: age >= 0
5
        Return True if and only if a person aged age can
6
7
        in Canada. The legal voting age in Canada is 18
            years and
8
        older.
9
10
11
       return age > 18
```

There is a bug in the implementation of the function above (the code does not work as described). Select the test(s) that reveal the bug. (Think about which test case category might help you reveal this bug.)

```
age is 0

age is between 0 and 18, exclusive

age is over 18

age refers to 18
```

1 point

6.

Consider this code:

```
1 def contains_item(L, s):
2    """ (list, object) -> bool
3
4    Return True if and only if s is an item of L.
5    """
6
7    for item in L:
8         if item == s:
9             return True
10         else:
11         return False
```

There are bugs in the implementation of the function above (the code does not work as described). Select the test(s) that reveal the bugs. (Think about the **Order** category for choosing test cases.)

```
L refers to [1, 2, 3], s refers to 1

L refers to [1, 2, 3], s refers to 3

L refers to [], s refers to 1

L refers to [1, 2, 3], s refers to 2
```

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1 point

7.

Consider this code:

```
1  def sum_items(L):
2    """ (list of number) -> number
3
4    Return the sum of the items in L.
5    """
6
7    total = 0
8
9    for item in L:
10        total = item
11
12    return total
```

There is a bug in the implementation of the function above (the code does not work as described). Select the test(s) that reveal the bug.

- L refers to [0, 0, 2].
- ✓ L refers to [1, 0, 1].
- ✓ L refers to [1, 2]
- L refers to [].
- L refers to [1]

1 point

8.

Consider this code:

```
def can_afford(item_cost, wallet_money):
        """ (float, float) -> bool
3
       Return True if and only if wallet_money is greater
4
           or equal
5
       to item_cost.
6
       >>> can_afford(3.42, 10.00)
8
       True
       >>> can_afford(27.32, 5.00)
9
       False
10
```

You are implementing a **unittest** test class to test **can_afford**. Which of the following names can be used as the name of one of your test methods?

✓ test_can_afford

TestCanAfford Week 2 Exercise 测验, 10 个问题 TEST_CAN_AFFORD

can_afford_test

1 point

9.

Consider this code, which is in a file called words.py

```
def word_frequency(letter_to_words):
 2
         """ (dict of {str: list of str}) -> dict of {str:
             int}
 3
 4
         Precondition: the length of each list in
             letter_to_words
         is at least 1, each key in letter_to_words is a
 5
             lowercase
 6
         letter, and each value is a list of lowercase
             words
 7
         beginning with that letter.
 8
9
         Return a dictionary where the keys are the
             letters from
10
         letter_to_words, and the values are the number of
            words
         beginning with that letter in letter_to_words.
11
12
         >>> d = {'a': ['apple'], 'b': ['beet', 'banana'],
         'c': ['carrot', 'cucumber']}
>>> expected = {'a': 1, 'b': 2, 'c': 2}
14
15
         >>> word_frequency(d) == expected
16
17
         True
18
```

Consider this unittest method header:

```
def test_word_frequency(self):
        """ A dictionary with several items."""
2
3
       # Add body here.
```

Select the **unittest** method body(ies) that are equivalent to the **doctest** in the word_frequencey docstring. You can assume that words has been imported.

```
d = {'a': ['apple'], 'b': ['beet', 'banana']
      , 'c': ['carrot', 'cucumber']}
2
    actual = words.word_frequency(d)
3
4
    expected = {'a': 1, 'b': 2, 'c': 2}
5
    self.assertEqual(actual, expected)
```



测验, 10 个问题

1 point

10.

Consider this code, which is in a file called words.py:

Consider this **unittest** method header:

```
1 def test_make_uppercase(self):
2    """ A list with several items."""
3
4    # Add body here.
```

Select the method body(ies) that correctly test the function with the list ['Ada Lovelace', 'Grace Hopper', 'Alan Turing'] . You can assume that words has been imported.

测验, 10 个问题



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