course_4_assessment_3

Due: 2019-02-04 15:15:00

Questions

Description: Assessment for the Test Cases lesson

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Score: 0.0 / 0

Score: 4.0 of 4 = 100.0%

Comment: autograded

Save & Run Show Code Show CodeLens

ActiveCode (ac_19_4_3)

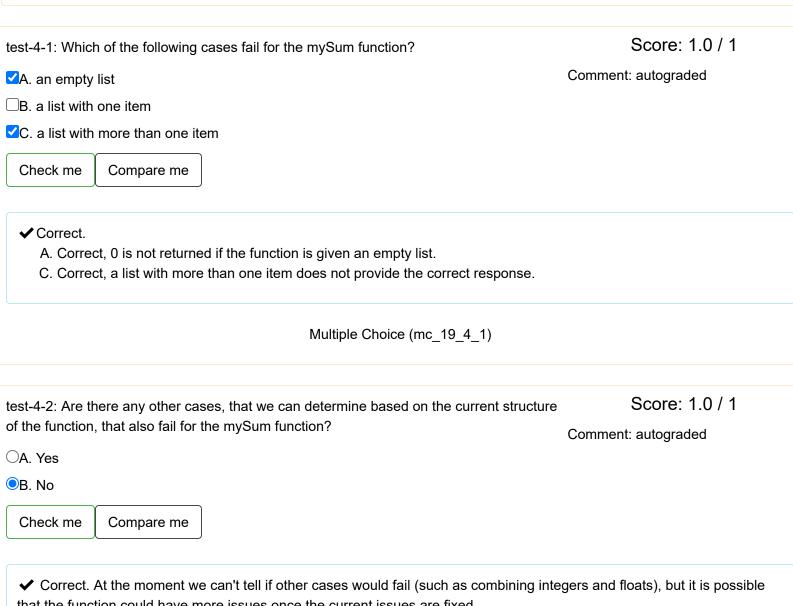
Score: 0.0 / 0

Comment: autograded

The function *mySum* is supposed to return the sum of a list of numbers (and 0 if that list is empty), but it has one or more errors in it. Use this space to write test cases to determine what errors there are. You will be using this information to answer the next set of multiple choice questions.

Save & Run 8/22/2020, 4:34:32 PM - 3 of 3 Show in CodeLens

```
1 import test
 2
 3
 4 def mySum(list):
 5
       if len(list) > 0:
           res = 0
6
           for i in list:
7
                res += i
8
9
           return res
10
       else:
11
           return 0
```



that the function could have more issues once the current issues are fixed.

Multiple Choice (mc 19 4 2)

Score: 0.0 / 0

Comment: autograded

The class Student is supposed to accept two arguments in its constructor:

- 1. A name string
- 2. An optional integer representing the number of years the student has been at Michigan (default:1)

Every student has three instance variables:

- 1. *self.name* (set to the name provided)
- 2. *self.years_UM* (set to the number of years the student has been at Michigan)
- 3. *self.knowledge* (initialized to 0)

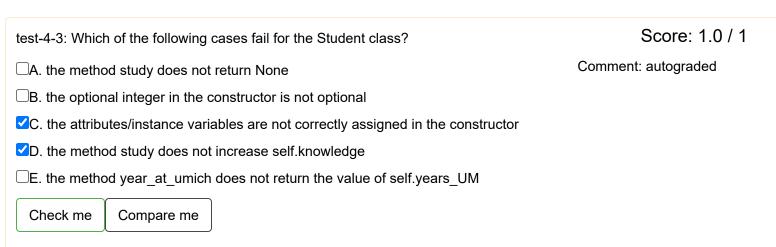
There are three methods:

- .study() should increase self.knowledge by 1 and return None
- .getKnowledge() should return the value of self.knowledge

• .year_at_umich() should return the value of self.years_UM

There are one or more errors in the class. Use this space to write test cases to determine what errors there are. You will be using this information to answer the next set of multiple choice questions.

```
8/22/2020, 4:34:57 PM - 3 of 3
                 Save & Run
                                                               Show in CodeLens
 1 class Student:
       def _init__(self, name, year_UM, knowledge):
 2
 3
           self.name = name
 4
           self.year_UM = year_UM
 5
           self.knowledge = knowledge
 6
7
       def study(self):
           self.knowledge += 1
8
9
           return None
10
       def getKnowledge(self):
11
12
           return self.knowledge
13
14
       def year_at_umich(self):
15
           return self vear IM
                                     ActiveCode (ac 19 4 2)
```



✓ Correct.

- C. Correct! The constructor does not actually use the optional integer that is provided. Instead it sticks with using the default value.
- D. Correct! Study does not increase the self.knowledge.

Score: 1.0 / 1

test-4-4: Are there any other cases, that we can determine based on the current structure of the class, that also fail for the Student class?

©A. Yes

○B. No

Check me Compare me

✓ Correct! There is an issue with the getKnowledge method because it returns None when self.knowledge is 0, even though it returns the correct value when self.knowledge is non-zero.

Multiple Choice (mc_19_4_4)

Score Me

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