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Exercise: odd tuples

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

Exercise: odd tuples

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

Write a procedure called `oddTuples`, which takes a tuple as input, and returns a new tuple as output, where every other element of the input tuple is copied, starting with the first one. So if test is the tuple `('I', 'am', 'a', 'test', 'tuple')`, then evaluating `oddTuples` on this input would return the tuple `('I', 'a', 'tuple')`.

```
1 def oddTuples(aTup):
2     '''
3     aTup: a tuple
4
5     returns: tuple, every other element of aTup.
6     '''
7     # Your Code Here
8     oList = []
9     for t in aTup[::2]:
10         oList.append(t)
11
12     return tuple(oList)
```

Press ESC then TAB or click outside of the code editor to exit

Correta



```
def oddTuples(aTup):  
    '''  
    aTup: a tuple  
  
    returns: tuple, every other element of aTup.  
    '''  
    # a placeholder to gather our response  
    rTup = ()  
    index = 0  
  
    # Idea: Iterate over the elements in aTup, counting by 2  
    # (every other element) and adding that element to  
    # the result  
    while index < len(aTup):  
        rTup += (aTup[index],)  
        index += 2  
  
    return rTup  
  
def oddTuples2(aTup):  
    '''  
    Another way to solve the problem.  
  
    aTup: a tuple  
  
    returns: tuple, every other element of aTup.  
    '''  
    # Here is another solution to the problem that uses tuple  
    # slicing by 2 to achieve the same result  
    return aTup[::2]
```

Test results

[Hide output](#)**CORRECT**

Test: oddTuples(())

Output:

Test: oddTuples((19,))



Output:

(19,)

Test: oddTuples((19, 9, 8, 0, 11, 10, 4, 10, 19, 8))

Output:

(19, 8, 11, 4, 19)

Test: oddTuples((7, 5, 4, 10))

Output:

(7, 4)

Test: oddTuples((1, 19, 15, 14))

Output:

(1, 15)

Test: oddTuples((15, 5, 2, 18, 7, 10, 3, 16, 14, 6))

Output:

(15, 2, 7, 3, 14)

Test: oddTuples((1, 16, 12, 18, 16, 14, 13, 1))

Output:

(1, 12, 16, 13)



Test: oddTuples((13, 16, 13, 3, 12))

Output:

(13, 13, 12)

Test: oddTuples((8, 6, 7, 3, 2, 2, 8, 0, 19))

Output:

(8, 7, 2, 8, 19)


Test: oddTuples((2, 0, 16, 15, 19, 1, 11, 20))

Output:

(2, 16, 19, 11)

[Hide output](#)

Enviar

 Answers are displayed within the problem

Exercise: odd tuples

Ocultar discussão

Topic: Lecture 5 / Exercise: odd tuples

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SPOILER 2 lines

8

Found this to be a simple problem after 30 minutes to decide a different approach, think some of...



SPOILER

7

Here is my code: #exercise 3.2 def oddTuples(aTup): ''' aTup: a tuple returns: tuple every other el



SPOILER: concatenate tuple does not seem to work



	Hi all, <u>My code was using a different solution than the two provided, but in my opinion this shoul...</u>	3
💬	<u>SPOILER How can I fix this?</u> File "submission.py", line 9, in <module> print(aTup[1::2]) <u>NameError: name 'aTup' is not defined</u>	2
💬	<u>Very proud of myself for the first time</u> <u>It's the first time in this course that I made a program so simple and at the first attempt. I hope th...</u>	1
💬	<u>you can do this without using iteration...</u> <u>there's no need to use iterative loops for this question, you can do it with slicing</u>	9
?	<u>why is it wrong ?</u> <u>here is my outpu Test: oddTuples(()) Your output: () None Correct output: () Test: oddTuples((13,))...</u>	3
?	<u>Used a For Loop, BUT gives the correct answer along with None in the next line</u> <u>aTup = ('I', 'am', 'a', 'test', 'tuple') i=0 odd=() for i in range(0,len(aTup),2): odd += (aTup[i]), print(odd...</u>	5
💬	<u>TypeError: oddTuples() takes 1 positional argument but 5 were given</u> <u>Hi I have written my code as a function, which assigns a new variable newTup to slicing the input ...</u>	4
?	<u>Problems in results</u> <u>I tried this question, and made my code in IDLE, and ran through it, and got the correct answers. ...</u>	5
💬	<u>For loop vs one line answer</u> <u>I know you can do this in one line with slicing, but if I want to use a for loop I get all test cases but ...</u>	2
💬	<u>Possible typo</u> <u>There seems to be a typo in "every *other* element " (I guess it should say "every *odd* element").</u>	3
💬	<u>SPOILER ALERT unable to find error in my code</u> <u>I have been trying to find the error in my code. Every time I run it, it returns nothing in both the l</u>	3

