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Exercise: odd tuples

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')`.

```
def oddTuples(aTup):
    '''
    aTup: a tuple

    returns: tuple, every other element of aTup.
    '''
    # Your Code Here
    oList = []
    for t in aTup[::2]:
        oList.append(t)

    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

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Topic: Lecture 5 / Exercise: odd tuples

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Possible typo

There seems to be a typo in "every *other* element " (I guess it should say "every *odd* element").

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SPOILER ALERT unable to find error in my code

I have been trying to find the error in my code. Every time I run it, it returns nothing in both the IDE a...

SPOILER: Why always indentation error? I use same algorithm and almost same syntax
allow me Just paste my code below, it use same method in algorithm like in Answer 1,: myTup = () x =... 3

? Problems in results
I tried this question, and made my code in IDLE, and ran through it, and got the correct answers. But... 3

? SPOILER: How to deal with an empty tuple when using a for loop and string slicing steps?
a simple for loop seems like an elegant solution here, like: for i in aTup: i = aTup[::2] return i This wor... 9

[SPOILER] Hint
For everybody being stuck with this one. Remember that odd and even positions of the string relate ... 4

Is there a way to do this without creating an intermediate variable?
I initialized a temporary list, appended necessary values, and then converted it into a tuple...is there ... 4 new_

? Used a For Loop, BUT gives the correct answer along with None in the next line
aTup = ('I', 'am', 'a', 'test', 'tuple') i=0 odd=() for i in range(0,len(aTup),2): odd += (aTup[i],) print(odd) I ... 4

This particular problem gave me so much grief because of the round function
round(2.5) = gives you 2 round(3.5) = gives you 4 round(4.5) = gives you 4 This was driving me absolu... 3