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## Exercise 1

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## Exercise 1

26/26 points (graded)

**ESTIMATED TIME TO COMPLETE: 5 minutes**

**Note that you will have to answer all questions before you can click the Check button.**

For each of the expressions below, specify its type and value. If it generates an error, select type 'NoneType' and put the word 'error' in the box for the value.

Assume we've made the following assignment:

```
x = (1, 2, (3, 'John', 4), 'Hi')
```

### Hints: Single Element Tuples

When a tuple has only one element, you must specify it as follows: `(elt,)`. Here is an example shell session that illustrates the difference:

```
>>> tup1 = (5)
>>> print(tup1)
5
>>> type(tup1)
<type 'int'>
>>> tup2 = (5,)
>>> print(tup2)
(5,)
>>> type(tup2)
<type 'tuple'>
```

• `x[0]`

int



1



• `x[2]`

tuple



(3, 'John', 4)



• `x[-1]`

string



'Hi'



• `x[2][2]`

int



4



• `x[2][-1]`

int



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4 ✓

• `x[-1][-1]`

string ✓

i ✓

• `x[-1][2]`

NoneType ✓

error ✓

• `x[0:1]`

tuple ✓

(1,) ✓

• `x[0:-1]`

tuple ✓

(1, 2, (3, 'John', 4)) ✓

• `len(x)`

int ✓

4 ✓

• `2 in x`

boolean ✓

True ✓

• `3 in x`

boolean ✓

False ✓

• `x[0] = 8`

NoneType ✓

error ✓

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# Exercise 1

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?	<a href="#">why does the output of x[0:1] has "," but not for x[0:-1]? Hello, My understanding is the slice of a tuple will still a tuple, and the key identifier of tuples is the "," sign. The output of x[0:1].mak...</a>	2	▾
?	<a href="#">Could not format HTML Can't see the question. Just see the line "Finger Exercises due Oct 27, 2022 01:30 CEST Could not format HTML for problem. Contac...</a>	7	▾
💬	<a href="#">sort of a bone headed question What does the notation x[2][2] mean? I got all those questions wrong but am not remembering where that was covered to review an...</a>	3	▾
?	<a href="#">why is x[0:1] a tuple? and not just 1?</a>	3	▾

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