

## Exercise 1

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Finger Exercises due Oct 26, 2022 16:30 PDT 

Completed

## 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

✓

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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? why is x[0:1] a tuple?

and not just 1?

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