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Exercise 1

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)
 >>> type(tup1)
 <type 'int'>
 >>> tup2 = (5,)
 >>> print(tup2)
 (5,)
 >>> type(tup2)
 <type 'tuple'>
  x[0]
                             ✓ Answer: int
  int
                                                               Answer: 1
  x[2]

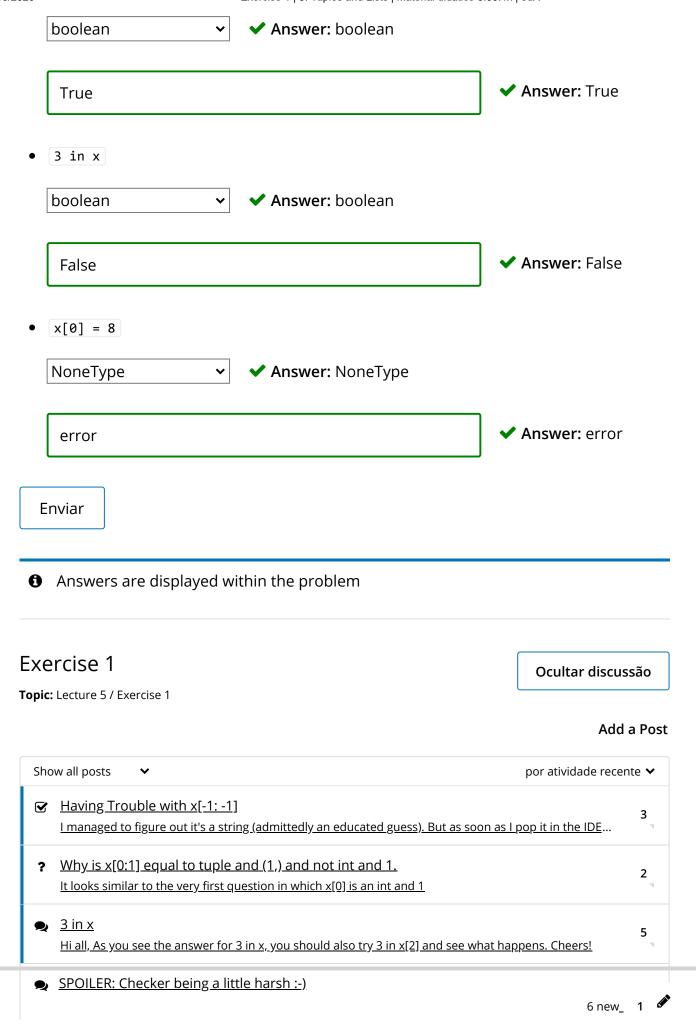
✓ Answer: tuple

  tuple
                                                              ✓ Answer: (3, 'John', 4)
    (3, 'John', 4)
  x[-1]
                            ✓ Answer: string
   string
                                                              ✓ Answer: 'Hi'
    Hi
  x[2][2]
  int

✓ Answer: int

                                                              ✓ Answer: 4
• x[2][-1]
                             ✓ Answer: int
  int
```

4	✔ Answer: 4
x[-1][-1]	
string Answer: string	
i	✓ Answer: 'i'
x[-1][2]	
NoneType ✓ Answer: NoneType	
error	✓ Answer: error
x[0:1]	
tuple Answer: tuple	
(1,)	✓ Answer: (1,)
x[0:-1]	
tuple Answer: tuple	
(1, 2, (3, 'John', 4))	~
Answer: (1, 2, (3, 'John', 4))	
len(x)	
int ~ Answer: int	
4	✔ Answer: 4
2 in x	



?	Why is $x[0:1]$ a tuple and $x[0]$ is not? x[0:1] evaluates to $(1,)$ - and why do you need the parenthesis here? $x[0]$ evaluates to 1	5
?	x[2][2], x[2][-1], x[-1][-1], x[-1][2] How to measure the answers for those type of question. I don't understand it how can get that output	2
Q	Why x[0:-1] does not need a comma at the end? x[0:-1] why is it (1, 2, (3, 'John', 4)) and not (1, 2, (3, 'John', 4),)?	3
Q	$\underline{x[0,-1]}$ Why does this not include the last element in tuple, the way indexing to -1 includes the last char in a	3
?	Is the "Submit" button broken? I can't submit my answers, the submit button is grayed out	2

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