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## Exercise 2

### Exercise 2

14/14 points (graded)

**ESTIMATED TIME TO COMPLETE: 12 minutes**

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

### Transcript

You have the following function definitions:



```
def a(x):  
    '''  
    x: int or float.  
    '''  
    return x + 1  
  
def b(x):  
    '''  
    x: int or float.  
    '''  
    return x + 1.0  
  
def c(x, y):  
    '''  
    x: int or float.  
    y: int or float.  
    '''  
    return x + y  
  
def d(x, y):  
    '''  
    x: Can be of any type.  
    y: Can be of any type.  
    '''  
    return x > y  
  
def e(x, y, z):  
    '''  
    x: Can be of any type.  
    y: Can be of any type.  
    z: Can be of any type.  
    '''  
    return x >= y and x <= z  
  
def f(x, y):  
    '''  
    x: int or float.  
    y: int or float  
    '''  
    x + y - 2
```

Below is a transcript of a session with the Python shell. Provide the type and value of the expressions being evaluated. If evaluating an expression would cause an error, select NoneType and write 'error' in the box. If the value of an expression is a function, select function as the type and write 'function' in the box.

1. `a(6)`

int



✓ Answer: int



✓ Answer: 7

2. `a(-5.3)`

✓ Answer: float

✓ Answer: -4.3

3. `a(a(a(6)))`

✓ Answer: int

✓ Answer: 9

4. `c(a(1), b(1))`

✓ Answer: float

✓ Answer: 4.0

5. `d('apple', 11.1)`

✓ Answer: NoneType

✓ Answer: error

6. `e(a(3), b(4), c(3, 4))`

✓ Answer: boolean

✓ Answer: False

7. `f`

✓ Answer: function



function

✔ Answer: function

Enviar

**i** Answers are displayed within the problem

## Exercise 2

Ocultar discussão

**Topic:** Lecture 4 / Exercise 2

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|--|--|-----------------------|---|
| Show all posts   | ▼  | por atividade recente | ▼ |
| 💬  | <a href="#">question 6</a>                                 | 4                     |   |
| why is question 6 just false acccording to me it should be false and true since first expression evalua...   |  |                       | ▼ |
| 💬  | <a href="#">hyper sensitive grader</a>                     | 2                     |   |
| error without ' ' False with CAPITAL F and when choosing function remember not to put the function...        |  |                       | ▼ |
| 💬  | <a href="#">capitalization False and True</a>              | 2                     |   |
| Don't forget! Make sure you capitalize False and True for your answers in the grader. false or true (lo...   |  |                       | ▼ |
| ?  | <a href="#">Question 7</a>                                 | 4 new_                |   |
| I did not quite understand what is the reason behind the answer to question 7. How did it evaluate?...       |  |                       |   |
| ✔  | <a href="#">value Question 7 (SPOILER)</a>                 | 7                     |   |
| I don't quite understand why the correct value for question 7 isn't simply "f" insteade of "function" sin... |  |                       | ▼ |
| 💬  | <a href="#">" " in Grader marking answers incorrectly.</a> | 4                     |   |
| Hello, why is the grader marking the answers with "" incorrectly: The instructions are: If evaluating a...   |  |                       | ▼ |