



Bookmarks

- ▶ [Welcome to the edX Platform](#)
- ▶ [Entrance Survey](#)
- ▶ [Download Python and Get Motivated!](#)
- ▶ [Week 1: Python Basics](#)
- ▼ [Week 2: Simple Programs](#)
- [3. Simple Algorithms \(TIME: 41:06\)](#)  
[Finger Exercises](#)
- [4. Functions \(TIME: 1:08:06\)](#)  
[Finger Exercises](#)
- [Complete Programming Experience: polysum](#)
- [Problem Set 2](#)  
[Problem Set due Feb 2, 2017 15:30 PST](#)

Week 2: Simple Programs &gt; 4. Functions (TIME: 1:08:06) &gt; Exercise 2

## Exercise 2

Bookmark this page

### Exercise 2

14 points possible (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:

- ▶ [Week 3: Structured](#)



## Types

- ▶ Week 4: Good Programming Practices
- ▶ Midterm Exam
- ▶ Sandbox

```
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.  $a(6)$ 

Select an option ▾

2.  $a(-5.3)$ 

Select an option ▾

3.  $a(a(a(6)))$ 

Select an option ▾

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

Select an option ▾

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

Select an option ▾

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

Select an option ▾



7. **Exercise 2****Topic:** Lecture 4 / Exercise 2

© All Rights Reserved



© 2012-2017 edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

POWERED BY  
**OPENedX**