
CS 61A Structure and Interpretation of Computer Programs

Summer 2017

QUIZ 1

INSTRUCTIONS

- You have 10 minutes to complete this quiz.
- The exam is closed book, closed notes, closed computer, closed calculator.
- The final score for this quiz will be assigned based on **effort** rather than correctness.
- Mark your answers **on the exam itself**. We will *not* grade answers written on scratch paper.
- For multiple choice questions,
 - means mark **all options** that apply
 - means mark a **single choice**

Last name	
First name	
Student ID number	
CalCentral email (<i>_@berkeley.edu</i>)	
Teaching Assistant	<input type="radio"/> Alex Stennet <input type="radio"/> Kelly Chen <input type="radio"/> Angela Kwon <input type="radio"/> Michael Gibbes <input type="radio"/> Ashley Chien <input type="radio"/> Michelle Hwang <input type="radio"/> Joyce Luong <input type="radio"/> Mitas Ray <input type="radio"/> Karthik Bharathala <input type="radio"/> Rocky Duan <input type="radio"/> Kavi Gupta <input type="radio"/> Samantha Wong
Name of the person to your left	
Name of the person to your right	
<i>All the work on this exam is my own.</i> (please sign)	

1. (5 points) Proceed with call-tion

For each of the expressions in the table, fill in the bubble corresponding to the output displayed by the interactive Python interpreter when the expression is evaluated. If an error occurs, choose “Error”. If a function value is displayed at any time during evaluation, choose “Function”. If the output is not any one of the given responses, choose “Other”. The first two rows have been provided as examples.

Recall: The interactive interpreter displays the value of a successfully evaluated expression, unless it is None.

Assume that you have started python3 and executed the following statements:

```
from operator import mul
```

```
x = 3
```

```
def square(x):
    return mul(x, mul(x, 1))
```

```
def cube(x):
    x = x + 1
    return print(square(x) * x)
```

Expression	Interactive Output		
pow(2, 3)	8		
print(4, 5) + 1	4 5 Error		
square(2) + square(x)	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/> 9 <input type="radio"/> 4 + 9 <input type="radio"/> 13	<input type="radio"/> Function <input type="radio"/> Error <input type="radio"/> Other
cube(3)	<input type="radio"/> 27 <input type="radio"/> 27 None <input type="radio"/> 27 None <input type="radio"/> 64	<input type="radio"/> 64 None <input type="radio"/> 64 None <input type="radio"/> square(3) * 3 <input type="radio"/> square(4) * 4	<input type="radio"/> Function <input type="radio"/> Error <input type="radio"/> Other
print(square(3), print(square(4)))	<input type="radio"/> 9 16 <input type="radio"/> 9 16 None <input type="radio"/> 9 None 16 <input type="radio"/> 16 9 None	<input type="radio"/> 16 None 9 <input type="radio"/> 9 None 16 None <input type="radio"/> square(3) square(4) <input type="radio"/> square(3) square(4) None	<input type="radio"/> square(3) square(4) None <input type="radio"/> Function <input type="radio"/> Error <input type="radio"/> Other
print(cube(square(2)))	<input type="radio"/> 64 <input type="radio"/> 64 None <input type="radio"/> 64 None <input type="radio"/> 125	<input type="radio"/> 125 None <input type="radio"/> 125 None <input type="radio"/> cube(square(2)) <input type="radio"/> cube(square(2)) None	<input type="radio"/> Function <input type="radio"/> Error <input type="radio"/> Other