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Quiz
Quiz due Feb 16, 2016 at 23:30 UTC

Bookmark

A reminder to students pursuing credit for this course from Charter Oak:

- re-verification is required for credit
- the passing score for credit is 65% overall

Re-verification is not required if you are just taking this course for the verified certificate.

Verification Checkpoint

Some learners who are working toward a verified certificate have to verify their identity before they can access this content. You do not have to verify your identity, and you can proceed to the next unit.

To learn more about verified certificates, see Verified Certificates in the *EdX Guide for Students*. You are taking this exam as an honor student.

Problem 1

(10 points possible)

Answer all questions before clicking Final Check.

1. Suppose `x = "pi"` and `y = "pie"`. The line of code `x, y = y, x` will swap the values of `x` and `y`, resulting in `x = "pie"` and `y = "pi"`.

   `True`

- `False`

?

2. Suppose `x` is an integer in the following code:

```
def f(x):
    while x > 3:
        f(x+1)
```

For any value of `x`, all calls to `f` are guaranteed to never terminate.

- True
- False

?

3. A Python program always executes every line of code written at least once.

- True
- False

?

4. Suppose you have two different functions that each assign a variable called `x`. Modifying `x` in one function means you always modify `x` in the other function for any `x`.

- True
- False

5.

The following code will enter an infinite loop for all values of `i` and `j`.

```
while i >= 0:
    while j >= 0:
        print i, j
```

- ○ True
- ○ False

6.

It is always possible and feasible for a programmer to come up with test cases that run through every possible path in a program.

- ○ True
- ○ False

7.

Assume `f()` is defined. In the statement `a = f()`, `a` is always a function.

- ○ True
- ○ False

8.

A program that keeps running and does not stop is an example of a syntax error.

- True
- False

?

9.

Consider the following function.

```
def f(x):
    a = []
    while x > 0:
        a.append(x)
        f(x-1)
```

A new object of type list is created for each recursive invocation of `f`.

- True
- False

?

10.

A tuple can contain a list as an element.

- True
- False

?

You have used 0 of 1 submissions

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