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Midterm Exam

Midterm due Feb 14, 2017 15:30 PST

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Problem 3

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Problem 3-1

2.0 points possible (graded)

Examine the following code snippet:

```
stuff = _____  
for thing in stuff:  
    if thing == 'iQ':  
        print("Found it")
```

Select all the values of the variable "stuff" that will make the code print "Found it".

☐ ["iBoy", "iGirl", "iQ", "iC", "iPaid", "iPad"]☐ ("iBoy", "iGirl", "iQ", "iC", "iPaid", "iPad")☐ [("iBoy", "iGirl", "iQ", "iC", "iPaid", "iPad")]☐ (["iBoy", "iGirl", "iQ", "iC", "iPaid", "iPad"],)☐ ["iQ"]☐ "iQ"

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You have used 0 of 1 attempt



Problem 3-2

2.0 points possible (graded)

The following Python code is supposed to compute the square of an integer by using successive additions.

```
def Square(x):  
    return SquareHelper(abs(x), abs(x))  
  
def SquareHelper(n, x):  
    if n == 0:  
        return 0  
    return SquareHelper(n-1, x) + x
```

Not considering recursion depth limitations, what is wrong with this implementation of procedure `Square`? Check all that apply.

- ☐ It is going to return a wrong value.
- ☐ The term `Square` is a reserved Python keyword.
- ☐ Function names cannot start with a capital letter.
- ☐ The function is never going to return anything.
- ☐ Python has arbitrary precision arithmetic.
- ☐ This function will not work for negative numbers.
- ☐ The call `SquareHelper(abs(x), abs(x))` won't work because you can't have `abs(x)` as both parameters.
- ☐ Nothing is wrong; the code is fine as-is.

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You have used 0 of 1 attempt





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