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Problem 2

Problem 2-1

0.0/1.0 point (graded)

Consider the statement: `L = {'1':1, '2':2, '3':3}`. Which is correct?

- L is a list
- L is immutable
- L contains 6 elements
- L has integer keys
- L maps strings to integers

Submit You have used 0 of 1 attempt

Problem 2-2

0.0/1.0 point (graded)

Assume a `break` statement is executed inside a loop and that the loop is inside a function. Which of the following is correct?

- The program might immediately terminate.

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- All of the above.
- None of the above.

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Problem 2-3

0.0/1.0 point (graded)

In Python, which of the following is a mutable object?

- a string
- a tuple
- a list
- all of the above
- none of the above

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Problem 2-4

0.0/1.0 point (graded)

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- `type(s)` can be `tuple`
- `type(s)` can be `list`
- All of the above

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Problem 2-5

0.0/1.0 point (graded)

Consider the code:

```
L = [1,2,3]
d = {'a': 'b'}
def f(x):
    return 3
```

Which of the following does NOT cause an exception to be thrown?

- `print(L[3])`
- `print(d['b'])`
-
```
for i in range(1000001, -1, -2):
    print(f)
```

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Problem 2-6

0.0/3.0 points (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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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.

Submit You have used 0 of 1 attempt

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