

## 2.2 a Programming Techniques

Total points **16/18**

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✓ What will be the output of this program?

1/1

```
while x < 10:  
    print(x)  
    x = x-1
```

- ☐ 10 9 8 7 6 5 4 3 2 1
- ☐ It will run forever
- ☐ 1 2 3 4 5 6 7 8 9
- ☒ An error message "x is not defined" ✓

✓ Which operator is used to find if a number is wholly divisible by another number (returns 0 if true)? 1/1

- ☐ Integer division
- ☒ Modulo ✓
- ☐ Division
- ☐ Subtraction



✓ Casting refers to:

1/1

- ☐ Boolean algebra
- ☐ Rounding of reals
- ☒ Converting between variable data types
- ☐ Printing out of the program's results



✓ The statement A OR B implies A and B are

1/1

- ☐ Integers
- ☐ Strings
- ☒ Booleans
- ☐ Characters



✓ Averages are best displayed as which data type?

1/1

- ☐ Boolean
- ☐ Character
- ☒ Float
- ☐ Integer



✓ test=[["Easy","Peasy"],["Lemon","Squeezy"]] What is test[1][2]?

1/1

☒ An error ✓

☐ Lemon Squeezy

☐ m

☐ Squeezy

✓ Which of the following is not a valid data type?

1/1

☐ Real

☐ String

☐ Character

☒ Fraction ✓

✗ Which of the following is not likely to be a constant

0/1

☒ TaxRate ✗

☐ PI

☐ UserName

☐ WordLimit

Correct answer

☒ UserName



✓ This function calculates the length of a string

1/1

☐ UBOUND

☐ INDEX

☒ LEN



☐ COUNT

✓ The following is NOT true about variable names

1/1

☐ They should be descriptive

☒ They must be in capital letters



☐ They can't start with numbers or contain spaces

☐ They point to memory locations

✓ Which of the following statements about arrays is not true?

1/1

☐ All array elements have the same data type

☐ Arrays have fixed size that can't be easily changed during a program run

☐ Names[LEN(Names)] is the last element of the array Names (except in Python)

☒ The use of iteration makes arrays less relevant



✓ This variable type can only have True or False values

1/1

☒ Boolean ✓

☐ Character

☐ Integer

☐ Real

✓ When a FOR loop increases a counter by a number other than one, this is called 1/1

☐ Increment

☐ Decrement

☒ Stepping ✓

☐ Condition

✓ Quotation marks around a variable's identifier imply

1/1

☐ It is an integer

☒ It is a string ✓

☐ It is a Boolean

☐ It is a real



✗ Which of these best describes a syntax error

0/1

- ☐ Typo
- ☐ Incorrect function used
- ☐ Broken the rules of the language
- ☒ Missed a bracket



Correct answer

- ☒ Broken the rules of the language

✓ Consider the following expression: `a=b`. This means

1/1

- ☐ The value of memory location a is equal to the value in memory location b
- ☐ b is being renamed into a
- ☐ The value of memory location a gets copied into memory location b
- ☒ The value of memory location b gets copied into memory location a



✓ `test=[["Easy","Peasy"],["Lemon","Squeezy"]]` What is `test[1][1][2]`?

1/1

- ☐ An error
- ☐ Sq
- ☐ q
- ☒ u



✓ In an assignment operation (=), what appears on the right hand side 1/1

- ☐ Label for a variable that is destination of data
- ☐ Multiple variables that are destinations for data
- ☒ Source data or calculations/operations
- ☐ The assignment operator



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