

Exercises for Deck 003

Python Strings

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- 1) Draw an octothorpe:
- 2) Augh! My code editor broke, and I had to write the following code in Notepad... Circle the comments.

```
print(10) # print 10
# wait for user to press enter
input("Press enter to continue")
# print("all done!")
```

- 3) Here's the same code again. This time, circle the function calls, but only the function calls that will be evaluated.

```
print(10) # print 10
# wait for user to press enter
input("Press enter to continue")
# print("all done!")
```

- 4) In your editor is it set to save files with CRLF line endings or LF line endings?
- 5) In the following code, does the # get printed out or start a comment, and why?

```
print("I need some #10 bolts.")
```

- 6) In the following code, what does the "" do?

```
print("""Shall I compare thee to a summer's day?
Thou art more lovely and more temperate.""")
```

7) If I wanted to just print out the single line:

By chance, or nature's changing course, untrimmed;
What quotes should I choose to make the string literal?

a) Write a program that writes out that single line.

8) If I wanted to print out the following quote, what quotes should I choose to make the string literal?

"Talk is cheap. Show me the code." - Linus Torvalds

a) Write a program that writes out that quote.

9) What is wrong with the following code?

```
print('Sphinx of Black Quartz, Judge My Vow')
```

10) What is wrong with the following code?

```
print('I'm beginning to have my doubts.')
```

11) Which one is the backslash?

/ \

12) Write a program that writes out the line,
By chance, or nature's changing course, untrimmed;
But this time use a single-quoted string literal.

13) Write a program that writes out the line,
"Talk is cheap. Show me the code." - Linus Torvalds
But this time use a double-quoted string literal.

14) Make your program from the previous question write out the - Linus Torvalds part on a separate line without using a multi-line string literal.

15) What does `\r` mean in a string literal?

16) What does `\n` mean in a string literal?

17) How many characters does the string literal `"\r\n"` have in it?

a) Write a program to check your answer.

18) How many characters does the string literal "" have in it?

a) Write a program to check your answer.

19) What is wrong with the following program?

```
print('\')
```

a) Fix the program.

20) Why should we avoid non-idiomatic or unusual Python features/syntax?

21) Consider the syntax of the following program:

```
print(type(10)("10")+20)
```

a) Are any of the (start of arguments delimiters?

b) Are any of the (start of expression delimiters?

c) What functions are called?

d) Put the functions in your answer for (c) in the order that they're called.

22) Write a program that computes 87 times 123, and writes out the answer like this, with no spaces:

87x123=99

Except instead of 99 it should show the correct answer by doing the multiplication in the program. Use only a single line of code.

- a) Draw a syntax diagram of your program.
- b) Write out the evaluation order for your program.

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23) Consider the following Python code:

```
int("87x123")
```

- a) Why doesn't it work? What error do we get?

24) Write a program that takes reads a number from the terminal, multiplies it by 87, then prints the result. Use only a single line of code.

- a) Draw a syntax diagram of your program.
- b) Write out the evaluation order for your program.

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