CPSC 1301, Computer Science I Quiz

Quiz 4a

This is a timed test. You have thirty minutes to complete the test. Your deliverable will be a plain text file, that is, an ASCII file with a .txt file extension. When you finish the test, upload your deliverable to Canvas. Do not publish your answer to your git repository.

Write a script file. Follow the following instructions. Your deliverable consists of your code and the output, together in one text document.

- 1. Create a list of the integers 1 through 5. You create a list using square brackets ([]) and comma seperated values.
- 2. Assign the list you created to a variable named listvar.
- 3. Print listvar.
- 4. Compute the length of listvar using the len() function.
- 5. Assign the length you created to a variable named listlen.
- 6. Print listlen.
- 7. Create a range of list indices using range(listlen).
- 8. Assign the range to a variable named listrange.
- 9. Print listrange.

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10. Using for i in listrange: ..., print the list indices.
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- 11. Using for i in listrange: ..., print the list values.
- 12. Using for i in listrange: ..., print the list indices backwards.
- 13. Using for i in listrange: ..., print the list values backwards.

This may help get you started.

```
1  mylist = ['a', 'b', 'c', 'd', 'e']
2  for e in range(len(mylist)):
3     print(mylist[e])
This prints:
```

a

b

С

d

¹If you think about it, you will realize that the arithmetic expression listlength - index will do what you want. In other words, we have this, given listlen = 5:

[•] 5 - 1 - 0 = 4

[•] 5 - 1 - 1 = 3

 ^{5 - 1 - 2 = 2}

^{• 5 - 1 - 3 = 1}

[•] 5 - 1 - 4 = 0