

How to Ace Computer Science 101

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of correct: 10 out of 10

1	pass
2	pass
3	pass
4	pass
5	pass
6	pass
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8	pass
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Assignments:
When in doubt, make sure to use office hours and python tutor to understand your code better! And start them early!

Modules (F22)

For the required email address below, use your netid@duke.edu. You can opt to receive a copy of your responses for your records and for future studying.

cody.schiffman@duke.edu [Switch account](#)

*** Required**

Email *

Your email

Modules are useful because... *

They allow us to use multiple data types

They enable us to change code without breaking other people's code

They make reusing code easier

We can use them to organize code

With them we can solve problems we otherwise wouldn't be able to solve

Consider the following main code in the file StuffHere.py. Which of the following statements are true?

```

12 if __name__ == '__main__':
13     answer1 = Something.mystery("which")

```

Labs:
Go to every lab and get help from the TA's if needed, their job is to help you and make sure you understand!

CompSci 101 Spring 2022, Exam 3 NETID: _____

PROBLEM 1: (What is the output? (18 pts))

For the following code, write the output to the right of each print statement. The output for the first three print statements is already shown.

OUTPUT:

```

seta = set([5,4,2])
print(seta)
print(list(seta))
print(sorted(seta))
-----
seta = set([6,7,3,1,3,6,7,6])
seta.add(6)
seta.add(8)
print(sorted(seta))
-----
seta = set([4,4,7,3])
seta.remove(4)
print(sorted(seta))
-----
seta = set([7, 3, 1])
setb = set([6, 3, 2])
print(sorted(seta & setb))
print(sorted(seta - setb))
print(sorted(setb - seta))
-----
lst = [8, 5, 3, 4]
dict = {'P':4, "M":7, "O":4, "B":5}
print(sorted(dict.keys()))
print({dict[k] for k in dict if dict[k] in lst})
dict["P"] = 6

```

APTs:

Let the motivation of getting all greens fuel you!

Assignment 6: Recommender

CompSci 101 Fall 2022

Program Due: December 6, 2022 (has one grace day)

NOTE: NO Extensions for program past December 7!

Sakai Quiz Due: December 5 (no grace day)

Overview

Completing the Assignment

Due Date

[Requirements and Modules to complete](#)

Completing RecommenderEngine.py

Functions to Implement

[average_ratings\(name, ratings\)](#)

[similar_items\(name, ratings\)](#)

[recommendations\(name, items, ratings, numUsers\)](#)

X-Reader Modules

The MovieReader.py Module

[getdata\(\)](#)

The BookReader.py Module

[getdata\(\)](#)

RecommenderMaker Module

[makerecs\(name, items, ratings, numUsers_top\)](#)

Testing

WOTOs:

Pay attention during every lecture and do every WOTO so you don't get behind!

Lab 10 CompSci 101, Fall 2022

[Lab Reflect/Questions and Code](#)

Lab Outline

Part 1: Analyzing the Python Modules (30-35 minutes)

[Part A \(Storyline and Modules\)](#)

[Part B \(Stories and Randomization\)](#)

[Part C \(Replacements, getReplacement\)](#)

[Part D: Module Purpose](#)

Part 2: Be Creative with Modules (15 minutes)

Lab Reflect/Questions and Code

As you're completing this lab, [complete this form](#). The code used in this lab can be found [via this link](#).

You'll need to run the *Storyline.py* module code to answer questions for this lab.

Lab Outline

There are two conceptual parts to this lab. These are summarized here and then elaborated on below.

1. Run *Storyline.py* and understand how it uses *Replacement.py* and *TemplateChooser.py*. You'll be asked several questions about the functions in each module. Some questions are high-level, a few are more about the code than about the functionality.
2. Create your own template and story.

Exams:
Use the old exams as practice and make sure to use the Reviewer App as well!