

## CSI 31

### Midterm Exam Outline

#### PART I

Answer all the questions in this part.

You can use textbook, notes, pdf of the textbook, but you cannot use Python interpreter nor other online resources.

You are limited to **one** hour.

#### Part 1

(Answer the True/False questions)

Review all True/False questions, you will be given 3-5 of them

#### Part 2

(Answer the Multiple Choice questions)

Review Multiple Choice Questions, you will be given 3-5 of them

#### Part 3

(Discussion)

1. What does the following piece of a program do when embedded in a correct program?

Show the output.

An example of the code:

```
a,b=10,2
for i in range(b):
    b = a + a + b - 3
    if b > 15:
        b = b - 5
print("b = ",b, "a = ", a)
```

2. Find and fix syntax errors in the program.

For example, find and fix **four** syntax errors:

```
a,b = 10;2
for i in range(b)
    b = 2a + b - 3
    if b > 15
        b = b-5
print("b, a") # display values of b and a
```

3. Given a code fragment, draw the flowchart

See in-class assignment from Lecture 7

After you finished working on Part I, submit it and you will be given Part II.

## PART II

Answer all the questions in this part. You can and you should use Python interpreter

### Question 1

(Write a program using the following code fragments)

See in-class assignment from Lecture 4

### Question 2

(Write a program using the given flowchart)

See in-class assignment from Lecture 7

### Question 3

Write a program that finds the smallest number from a list of numbers provided by the user. Your program should ask the user first how many values does he/she wants to work with; assign this number to a variable, say  $n$ , and use a for loop to find the smallest number of  $n$  numbers.

Don't forget to test your program before submitting it.