

CSCI C200 INTRODUCTION TO COMPUTERS AND PROGRAMMING

FALL 2019 GRADE REPORT

Sweeney, Cole

Computer Science
School of Informatics, Computing, and Engineering

Indiana University, Bloomington, IN, USA

December 20, 2019

Assignment 1

Assigned: September 4, 2019

Due: September 11, 2019

Problem 1

windchill.py

50 points total

0/10 points for correct Assignment1 folder setup

10/10 points for correct module name

10/10 points for proper variable names in the calculation (T and V)

10/20 points for proper calculation

Score: 40/50

Problem 2

creditcard.py

50 points total

0/10 points for correct Assignment1 folder setup

10/10 points for correct module name

10/10 points for proper variable names in the calculation (APR, C, P, i)

10/20 points for proper calculation

"Assignment 1" is your folder name. We wanted "Assignment1" no spaces.

Score: 40/50

Total Score: 80/100

Assignment 2

Assigned: September 12, 2019

Due: September 18, 2019

Problem 1

mayhem.py

195 points total

110/120 points for functions [10 points each]:

`speed`, `distance`, `time`, `hours_to_min`, `min_to_sec`, `feet_to_mile`, `miles_to_kilometers`, `kilometers_to_miles`, `miles_to_feet`, `degrees_to_radians`, `parsecs_to_kilometers`, and `lightyears_to_parsecs`.

The function called `time` is incorrect. 75/75 points for functions [15 points each]:

`side_length_triangle`, `celsius_to_fahrenheit`, `fahrenheit_to_celsius`, `kelvin_to_fahrenheit`, and `percent_change`.

Score: 185/195

Problem 2

2019tax.py

60 points total

25/25 points for proper implementation of the `unmarriedTax` function.

25/25 points for proper implementation of the `marriedTax` function.

0/10 points for answering observational question.

The question the homework asked was not answered.

Score: 50/60

Problem 3

lestat.py

80 points total

40/40 points for implementation of the `receiveFrom` function with correct output.

40/40 points for implementation of the `donateTo` function with correct output.

Great Job!

Score: 80/80

Problem 4

coolline.py

35 points total

10/10 points for changing the title of the graph.

25/25 points for adding the new function to the plot.

Great Job!

*−25 points for your assignment folder being named incorrectly. We want "Assignment2" *no spaces* you have "Assignment 2"*

Score: 35/35

Total Score: 325/370

Assignment 3

Assigned: September 19, 2019

Due: September 25, 2019

Problem 1

funwithfunctions.py

135 points total

135/135 points for functions [15 points each]:

Nice work

Score: 135/135

Problem 3

qc1.py

50 points total

15/15 points for printing a message indicating `complex` or `not complex`.

15/35 points for a correct implementation of the `q` function with appropriate return structure for quadratic solutions.

-20 the values in the output were incorrect

Score: 30/50

Problem 4

if.py

75 points total

66/75 points for conditional statements correctly re-written [15 points for each group]:

-2 #1 if y was true it would be printed, when it shouldn't

-2 #3 should just be x and y

-5 #4 last if is incorrect

Score: 66/75

Problem 5

precmetal.py

75 points total

30/30 points for proper implementation of the `preciousMetalToDollars` function.

45/45 points for proper implementation of the `purchase` function.

Good work

Score: 75/75

Problem 6

myclock.py

25 points total

10/10 points for changing title.

15/15 points for changing font.

Awesome Job

Score: 25/25

Total Score: 331/360

Assignment 4

Assigned: September 25, 2019

Due: October 2, 2019

Problem 1

funtriangle.py

45 points total

iiiiii HEAD 20/45 points for correct triangle output [15 points each]:

===== 0/45 points for correct triangle output [15 points each]:

iiiiiii 1a97a42c167246b3552cfb1304c14eb6a4c2b760

not correct

Score: 20/45

Problem 2

makeitrain.py

40 points total

0/30 points for correct implementation of `dollars` function.

0/10 point for appropriate return values and structure.

not finish

Score: 0/40

Problem 3

donor.py

60 points total

30/30 points for proper implementation of `red.blood_compatibility` function with appropriate return values.

20/30 points for proper implementation of `transfusion` function with appropriate return values.

Test failed for value: ['A+', 'AB+', 4]

Test failed for value: ['O-', 'A-', 100]

Score: 50/60

Problem 4

palindrome.py

40 points total

0/40 points for correct implementation of `palindrome` function.

not finish

Score: 0/40

Problem 5

roman.py

50 points total

0/50 points for correct implementation of `roman` function.

not finish

Score: 0/50

Problem 6

moreloops.py

115 points total

0/75 points for correct implementation [15 points each] of
`maxFor`, `maxWhile`, `minFor`, `myReplace` functions, `StringConcat`

0/40 points for correct implementation [20 points each] of
`RemoveEvens`, `sumOdd`

not finish

Score: 0/115

Problem 7

farm.py

50 points total

iiiiii HEAD 10/50 points for correct implementation of **roman** function.

===== 0/50 points for correct implementation of **roman** function.

LLLLLLL 1a97a42c167246b3552cfb1304c14eb6a4c2b760

not finish

Score: 10/50

Total Score: 80/400

Assignment 5

Assigned: October 3, 2019

Due: October 9, 2019

Problem 1

entropy.py

60 points total

0/30 points for correct implementation of the `makeProbability` function:

0/30 points for correct implementation of the `entropy` function:

no work

Score: 0/60

Problem 2

magic.py

60 points total

40/40 points for correct encantation [8 points each]

10/10 points for correct order of encantation

10/10 points for correct return value

Perfect!

Score: 60/60

Problem 3

ones.py

40 points total

30/40 points for correct implementation of the `lr` function

(-10) fail case [0,1,1,0,0,1,1,1,1,0]

Score: 30/40

Problem 4

nines.py

40 points total

0/40 points for correct implementation of the `div_9` function

using /9. read instruction.

Score: 0/40

Problem 5

squares.py

40 points total

0/40 points for correct implementation of the `sq` function

wrong implementation

Score: 0/40

Problem 6

luddy.py

70 points total

0/15 points for correct implementation of the `area` function

0/15 points for correct implementation of the `f` function

0/20 points for brute force solution

0/20 points for numpy solution

bugged and wrong implementation

Score: 0/70

Problem 7

wish.py

50 points total

50/50 points for correct implementation of the `is_magic` function

Perfect!

Score: 50/50

Total Score: 140/360

Assignment 6

Assigned: October 11, 2019

Due: October 14, 2019

Problem 1

alpha.py

80 points total

10/10 points for correctly opening and reading the file from the correct location

20/20 points for correctly reading the file contents

10/10 points for setting up the dictionary

30/30 points for counting lowercase letters

10/10 points for properly returning the dictionary of counted letters

Great job 100%

Score: 80/80

Total Score: 80/80

Assignment 7

Assigned: October 23, 2019

Due: October 30, 2019

Problem 1

recpractice.py

190 points total

120/150 points for correct implementation of the ten (recursive and non-recursive) functions [15 points each]

0/25 points for including a (single) for-loop to show the first ten values of each function

0/15 points for answering critical thinking questions

No B, or C18. -30

Did not display first 10 values in single for loop. -25

no question responses. -15

Score: 120/190

Problem 2

minime.py

95 points total

0/95 points for correct implementation of the six min functions [15 points all but MIN, which is 20]

No attempt

Score: 0/95

Problem 3

twoMax.py

35 points total

0/40 points for proper implementation of twoMax function.

no attempt

Score: 0/40

Problem 4

isogram.py

30 points total

30/30 points for correct implementation of `is_isogram` function.

Great Work!

Score: 30/30

Problem 5

hexagram.py

35 points total

10/35 points for correct implementation of `hex_dec` function.

Not quite. Go back and look how a conversion to a different base works. -25

Score: 10/35

Problem 6

doctor.py

60 points total

30/30 points for correct implementation of appendicitis prediction logic

10/10 points for correct input functionality

10/10 points for correct and informative output

10/10 points for meaningful and informative comments

*Lots of informative comments!
Great Work!*

Score: 60/60

Problem 7

astronomy.py and stellar.py

50 points total

20/20 points for completing the `astronomy.py` module.

20/30 points for completing the functions in the `stellar.py` module.

Close, but check your formula again. radius != d. -10

Score: 40/50

Total Score: 260/500

Assignment 8

Assigned: November 1, 2019

Due: November 6, 2019

Problem 1

fignewton.py

50 points total

0/20 points for correct implementation and integration of user input: function and initial estimate [10 points each].

0/30 points for correct implementation and integration of user input: threshold and iteration bound [15 points each].

Well done!

Score: 50/50

Problem 2

mybisect.py

50 points total

15/15 points for correct implementation of the **sign** function.

25/35 points for correct implementation of the **bisect** function.

(-10) for incorrect values

Score: 40/50

Problem 3

game1.py

50 points total

50/50 points for proper implementation of color changing square.

Well done!

Score: 50/50

Problem 4

secant.py

50 points total

50/50 points for correct implementation of `secant` function.

well done!

Score: 50/50

Problem 5

easycalc.py

50 points total

10/50 points for correct implementation of `simpson` function.

(-40) No new code implemented

Score: 10/50

Problem 6

rec.py

200 points total

200/200 points for correct implementation of `even`, `odd`, `b`, `btr`, `bm`, `gg`, `gtr`, `gm` functions [25 points each].

Well done!

Score: 200/200

Total Score: 400/450

Assignment 9

Assigned: November 7, 2019

Due: November 13, 2019

Problem 1

randomwalk.py

60 points total

0/60 points for correct implementation of the **step** function.

Great job 100%

Score: 60/60

Problem 2

mymap.py

50 points total

0/25 points for adding the geolocation of IU's Musical Arts Center.

0/25 points for adding it to the list of points and plotting it.

Great job 100%

Score: 50/50

Problem 3

complex.py

90 points total

0/40 points for correct implementation of the **__sub__** and **__truediv__** functions [20 points each].

0/50 points for correct implementation of the **molulus** and **polar** functions [25 points each].

-5 polar is incorrect

-15 truediv is incorrect

Score: 65/90

Total Score: 180/200

Assignment 10

Assigned: November 14, 2019

Due: November 20, 2019

Problem 1

haversine.py

60 points total

0/45 points for correct implementation of the `hd` function.

0/15 points for answering the analysis questions.

*-10: function hd failed multiple test cases.
-5: answer not sufficient enough. You should have discussed about
how one is better than the other.*

Score: 45/60

Problem 2

lineclass.py

50 points total

0/25 points for correct implementation of `__init__` class function.

0/25 points for correct implementation of `__mul__` class function.

-50: Syntax errors in the code, could not run it.

Score: 0/50

Problem 3

weird.py

60 points total

0/25 points for correct implementation of `f` function.

0/25 points for correct implementation of `g` function.

0/10 points for answering the analysis question.

good job!

Score: 60/60

Problem 4

matrix.py

120 points total

0/120 points for correct implementation of matrix functions [30 points each].

-120: Syntax error in the code, doesn't run.

Score: 0/120

Problem 5

correlation.py

80 points total

0/20 points for correct implementation of the `mean` function.

0/20 points for correct implementation of the `sd` function.

0/20 points for correct function calls to calculate the correlation coefficient.

0/20 points for correctly producing a plot named `stock.png`.

-80: Syntax error in the code, doesn't run.

Score: 0/80

Total Score: 105/370

Processing Real Data

Assigned: November 7, 2019

Due: November 13, 2019

Part 1

Deliverables

10 points total

0/10 points for expect.py and graph state_county.png

-5: Syntax error, code does not run.

Score: 5/10

Part 2

Functionality

120 points total

0/120 points for correct data processing and analysis.

-60: Syntax error, code does not run.

Score: 60/120

Part 3

Graph

170 points total

0/25 points for correct title.

0/25 points for correct legend.

0/120 points for correct graph of life expectancy for male and female.

-85: Syntax error, code does not run.

Score: 85/170

Total Score: 150/300

Assignment 10

Assigned: November 14, 2019

Due: November 20, 2019

Problem 1

haversine.py

60 points total

0/45 points for correct implementation of the `hd` function.

0/15 points for answering the analysis questions.

*-10: function hd failed multiple test cases.
-5: answer not sufficient enough. You should have discussed about how one is better than the other.*

Score: 45/60

Problem 2

lineclass.py

50 points total

0/25 points for correct implementation of `__init__` class function.

0/25 points for correct implementation of `__mul__` class function.

-50: Syntax errors in the code, could not run it.

Score: 0/50

Problem 3

weird.py

60 points total

0/25 points for correct implementation of `f` function.

0/25 points for correct implementation of `g` function.

0/10 points for answering the analysis question.

good job!

Score: 60/60

Problem 4

matrix.py

120 points total

0/120 points for correct implementation of matrix functions [30 points each].

-120: Syntax error in the code, doesn't run.

Score: 0/120

Problem 5

correlation.py

80 points total

0/20 points for correct implementation of the `mean` function.

0/20 points for correct implementation of the `sd` function.

0/20 points for correct function calls to calculate the correlation coefficient.

0/20 points for correctly producing a plot named `stock.png`.

-80: Syntax error in the code, doesn't run.

Score: 0/80

Total Score: 105/370