**CSC 311 Fall 2019 Assignment 3**

**(12 points) Foundations of Algorithms, Appendix B, Exercise Problem 1. (Parts a, b, e-h)**

b)

e)

f)

g)

h)

**(3 points) Foundations of Algorithms, Appendix B, Exercise Problem 2.**

**(2 points) Foundations of Algorithms, Appendix B, Exercise Problem 4.**

**(3 points) Foundations of Algorithms, Appendix B, Exercise Problem 5.**

**(4 points) Foundations of Algorithms, Appendix B, Exercise Problem 8.**

int computeSum() {

int sum = 1;

for (int i = 0; i < n; i++ {  
 sum += 2\*i – 1;

}

return sum;

}

**(3 points) Foundations of Algorithms, Appendix B, Exercise Problem 10.**

4,5,6, and 8 are already completed.

**(8 points) Foundations of Algorithms, Appendix B, Exercise Problem 12.**

a)

b)

c)

d)

**(8 points) Foundations of Algorithms, Appendix B, Exercise Problem 15.**

a)

b)

c)

d)

**(10 points) Foundations of Algorithms, Appendix B, Exercise Problem 19.**

a)

b)

c)

d)

e)

**(6 points) Foundations of Algorithms, Appendix B, Exercise Problem 24.**

a)

b)

c)

**(4 points) Foundations of Algorithms, Appendix B, Exercise Problem 25.**

a)

b)

**(6 points) Recursive Programming Chapter 3, Exercise 3.10.**

a)

b)

c)

**(3 points) Recursive Programming Chapter 3, Exercise 3.11.**

**(3 points) Recursive Programming Chapter 3, Exercise 3.12.**

**(3 points) Recursive Programming Chapter 3, Exercise 3.13.**

**(3 points) Recursive Programming Chapter 3, Exercise 3.15.**

**(3 points) Recursive Programming Chapter 3, Exercise 3.16.**

**(16 points) Recursive Programming Chapter 3, Exercise 3.18. (Parts c-j)**

c)

d)

e)

f)

g)

h)

i)

j)