

# CSCE 155 – Lab: Recursion

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*Worksheet – C Version*

Name \_\_\_\_\_

- 1. Test your palindrome program on the following inputs:
  - a. "abba"
  - b. "aaba"
  - c. "foobar"
  - d. "civic"
  - e. "civil"
  - f. "foo"
  
- 2. Fill out the following table with the specified values using the recursiveFunction program.

n	f(n)	Time (s)
0		
1		
2		
5		
10		
20		
30		
40		
42		
44		
46		
48		

- 3. Without actually running it, make a prediction on how long it would take to run the program for n = 50. How long would it run for n = 100?

4. What values do you get for each of the following inputs with your Jacobsthal program?

a.  $n = 0$

b.  $n = 1$

c.  $n = 5$

d.  $n = 10$

e.  $n = 20$

f.  $n = 32$

5. Demonstrate your working suffix generator program to a lab instructor.

Lab Instructor Signature\_\_\_\_\_