

CSCE 155 - Lab 12 - Recursion - Worksheet

Names: _____

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 (sec)
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 programs to a lab instructor.

Lab Instructor Signature_____