ECCS 1611 – Programming 1 Name: Group 14

Fall Semester 2020

PreLab 04 – Teamwork - 10 September 2020

Please record below your group’s responses to each of the posed questions.

1. What are the legal input values for this problem?

A 8 digit positive integer

1. How should the check for legal input be implemented as part of a C++ program?

When running the cin statement, check if cin fails. This would check for the wrong data type. In addition, no credit card in America has a leading zero, so we could verify the number is between 1000000 and 99999999.

1. Write the pseudocode for this program.

**Get user input**

**Verify user input**

**Separate digits into array**

**Add up all even digits**

**Square all odd digits**

**Add up all odd squared digits**

**Check if last digit == 0**

**Test Runs – input in bold italics:** **First Attempt Correct?** Y | N

**Run #1:**

Please enter 8-digit card number: ***43589795***

Card is valid.

**Run #2**

Please enter 8-digit card number: ***43589796***

Card is not valid.

***Need scratch paper for this assignment? Feel free to add to this document or use the white space above!***

***You can also use separate files, take pictures, etc.***