ECCS 1611 – Programming 1 - Fall Semester 2020 Name: Dominic Hupp

Lab 9 Part A – Arrays and Vectors – 29 October 2020 lab section: morning **afternoon**

**P9-1A: What does the 2D array look like? How many rows? How many columns? Sketch out the first two rows and the last row.**

{  
 {1, 1, 2, 3, 4},

{2, 1, 2, 3, 4}

…

{14,1,2,3,4}

}

**P9-1B: Write the pseudocode for displaying the seats.**

Start loop for 14 times

Print out first number of array as row number

Convert 1 through 4 into letters

Print X if number is -1 (taken)

**P9-1C: How do you know a seat is occupied? Write the pseudocode for checking if a seat is occupied.**

If row,seat == -1

**P9-1D: Using your answer from part 11-1B, what parts of the algorithm are similar to determining if all the seats are filled? Write the pseudocode for determining if all the seats are filled.**

**Loop through all rows**

Check each seat to see if it equals -1

**P9-1E:** Function prototypes used? No | **Yes**

**Test Run – enter the following seats:**

1A 1B 1C 1D 2B 15B 3B 1A 5D 10B 12C 14C 14B 9E

Seats initially displayed as being empty **Correct?** Y | N

Display updated for each seat **Correct?** Y | N

Already assigned seat triggers new prompt **Correct?** Y | N

Input of non-existing seats correctly handled **Correct?** Y | N

***Please submit at least 2 screenshots demonstrating two of the items above.***