

## SWEN 563 Real-Time and Embedded Systems

### Project 2a Demo

Student Names: \_\_\_\_\_

1. \_\_\_\_ Each servo can be positioned to 6 approximately even positions.
2. \_\_\_\_ Recipes demonstrate all required undergrad op-codes.
3. Using the red and green LEDs display the status of servo 1:  
  
\_\_\_\_ Recipe Running (only green on)  
\_\_\_\_ Recipe Paused (all off)  
\_\_\_\_ Recipe Command Error (red on)  
\_\_\_\_ Recipe Nested Loop Error (red and green both on)
4. User commands work correctly for both servos:  
  
\_\_\_\_ p for pause  
\_\_\_\_ c for continue  
\_\_\_\_ r for right when paused  
\_\_\_\_ l for left when paused  
\_\_\_\_ n for do nothing  
\_\_\_\_ b for begin again (restart)
5. \_\_\_\_ Demonstrate independent recipe operation for the two servos (servos obviously doing different recipes).
6. Includes required test recipe snippets in demo. This is the recipe from the project that has 3 successive wait 31 steps. When running this recipe observe that the recipe pauses for approximately 9.3 seconds.  
  
\_\_\_\_\_ observed wait time
7. Graduate student extension(s) if applicable. NOTE – for teams of two graduate students two different recipe extensions are required. Describe the extension and whether or it worked. Continue on the back if necessary.