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|  | LAB #4  EMoRo Basics  Arduino, LCD, and Buttons |  |

This lab exercise is closed book/closed notes except for (a) the cplusplus.com website and (b) the EMoRo 2560 Library PDF. **It is individual effort**. It is to be completed in person on Sloeber. This lab is worth 50 points and you will have 75 minutes to complete it. You will submit your completed project to a **D2L dropbox.**

1. You are to write a program that informs the user if a button is being held at any given time.
   1. In setup…
      1. Initialize your EMoRo robot and the LCD.
      2. If there was an error initializing the buttons, print an error to the user.
   2. Write a function to handle the buttons.
      1. Inside this function, check if the switches are available.
      2. If the switches are available, check the state of each switch. If it is currently held, print to the LCD which switch is being held.
      3. If no switches are held, print that!
   3. In loop…
      1. Call your function from §1.2.