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|  | MAKE-UP LAB #4  EMoRo Basics  Arduino, LCD, and Buttons |  |

This make-up lab exercise is **open book/open notes** and an **individual effort**; however, collaboration is permitted with the four 2/c TOOP Assistants. This make-up lab will allow you to earn up to half the points you missed on Lab #4 (I will take the average of both scores). You must complete this lab via Sloeber. Submit via the D2L dropbox by 0800 on Tuesday, 26 October**.**

1. You are to write a program that tells the user when a button is held and then, afterwards, displays how long the button was held for.
   1. In setup…
      1. Initialize your EMoRo robot.
      2. If there was an error initializing the buttons, print an error to the user via the serial port.
   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 and the running time in which that switch has been held.
      3. If no switches are held, say that!
   3. In loop…
      1. Call your function from §1.2.
      2. Delay .5 seconds