Progress Report 3

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Subsystem: Coding

Date Of Submission: 20/12/2020

Reporting Progress from 14/12/2020 to 20/12/2020

Progress in C/C++

- Recursion questions
- Trees
  - Binary Search Tree

Progress in Arduino(IDE)

- Representing Binary numbers using LEDs code
- Using a pushbutton to Fade an LED and another pushbutton to brighten the LED
- Used a servo
- Made a circuit using a Photoresistor to switch on the LED when it is dark and switch off the LED when it is not dark.
- Used to a potentiometer to dim and brighten a LED
- Used an IR sensor to detect the presence of an object and switch on the LED

Progress in Arduino(Hardware)

- Representing Binary numbers using LEDs code
- Using a pushbutton to Fade an LED and another pushbutton to brighten the LED
- I learned about Arduino shields, and I will try to build an obstacle avoiding bot as soon as the components required to make it are delivered

Progress on other fronts

- Practiced some basic array questions on HackerEarth
- Developed a basic TicTacToe app using Android Studio

Issues Faced

- I had some difficulty learning about the SPI communication protocol
- Trees are a bit typical to understand