## **Computer Systems**

Week 10

## **Overview**

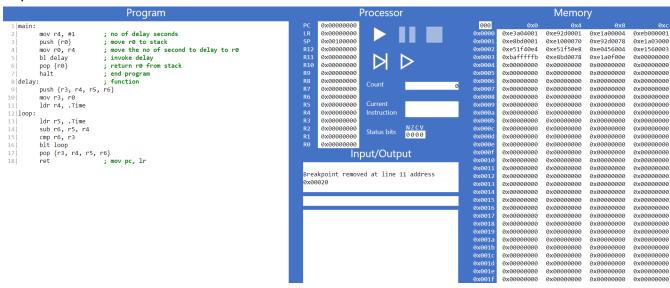
Name: Le Quang Hai

Student ID: 104175779

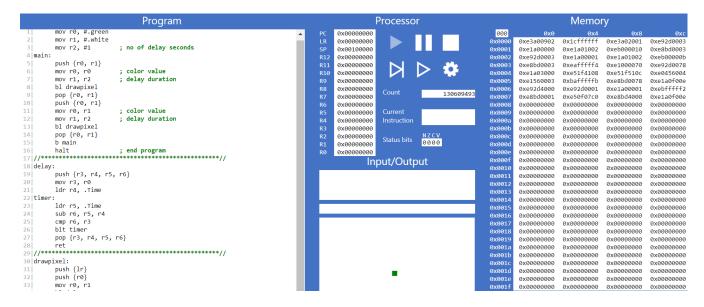


## Exercise 10.1

(a) First write the delay function. This function should take a single input, the number of seconds to delay for and be called from the main program everytime there is a pause required.



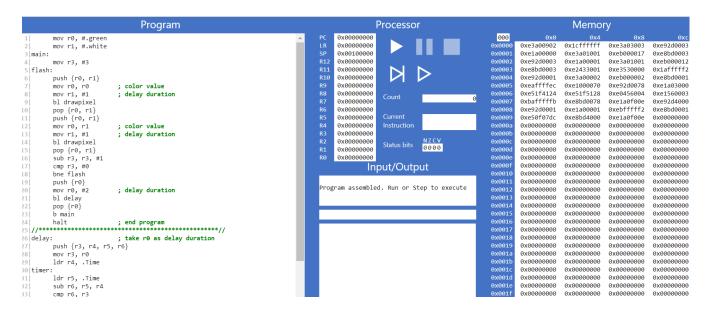
(b) Then write the drawpixel function. This function should take two inputs: the color of the pixel to draw, and the time delay between on and off. This function should also call the delay function to insert the pauses between on and off.



(c) when you implemented drawpixel, what did you have to do with LR to make it work? Why?

**Ans:** I have to push {Ir} at the beginning of the drawpixel function so that the value of the next instruction address is stored in the stack because the Ir value will change once I invoke another function from inside a function

## Exercise 10.2



Exercise 10.3

