Homework 4 - MQTT checkpoint

Due Thursday 2/29

The objective of this homework is to get your ESP32 connected to the Tufts network and send a message over MQTT.

To do this, use the code examples on the course website to complete the steps below.

WiFi

1. Get the MAC address of your ESP32.

2. Register your ESP32 with the Tufts network: https://device-registration.it.tufts.edu.

3. Confirm that you're registered. If you refresh the device registration page, you can see a list of your devices and their IP addresses (if connected). You can also look at the IP address your ESP32 reports: if it is connected to the network but not registered, it will get an IP address in the `172.x.x.x` address range. If it is registered, you should get an address in the `10.x.x.x` or `130.x.x.x` range.

MQTT

Publish a message with a short payload to the test broker:

- Host: `en1-pi.eecs.tufts.edu`
- Topic: `UTLN/hw4` (where `UTLN` is replaced with your actual UTLN)

Confirm that this worked by visiting http://en1-pi.eecs.tufts.edu. If successful, your UTLN should have a green box with the timestamp and payload of your most recent message.

There's nothing you need to turn in for this homework; just make the box go green and you're all set!