APS145\_Workshop3\_traffic lights

1. Start
2. Turn on – solid green light + advanced left green arrow state
3. Set 15 seconds to interval
   1. If there is a system interrupt,
      1. Yes – Turn on all red (4-ways stop) and go to #13
      2. Else – go to # 4
4. Turn on – solid green + advanced left amber state
5. Set 5 seconds to interval
   1. If there is a system interrupt,
      1. Yes – Turn on all red (4-ways stop) and go to #13
      2. Else – go to # 6
6. Turn on: Only solid green state
7. Set 40 seconds to interval
   1. If there is a system interrupt,
      1. Yes – Turn on all red (4-ways stop) and go to #13
      2. Else – go to # 8
8. Turn on: solid amber light
9. Set 10 seconds to interval
   1. If there is a system interrupt,
      1. Yes – Turn on all red (4-ways stop) and go to #13
      2. Else – go to # 10
10. Turn on: solid red light
11. Set 70 seconds to interval
    1. If there is a system interrupt,
       1. Yes – Turn on all red (4-ways stop) and go to #13
12. Else – go to # (11-b)

b. If there are more than 6 cars, or pedestrian request to walk button

i. Yes go to #12

ii. Else go to #13.

1. If the red light is longer than 25 seconds,
   1. Yes – reduce 25 seconds from remaining time.
   2. Else –wait for the remaining time
2. Reset the system and go to # 2
3. End