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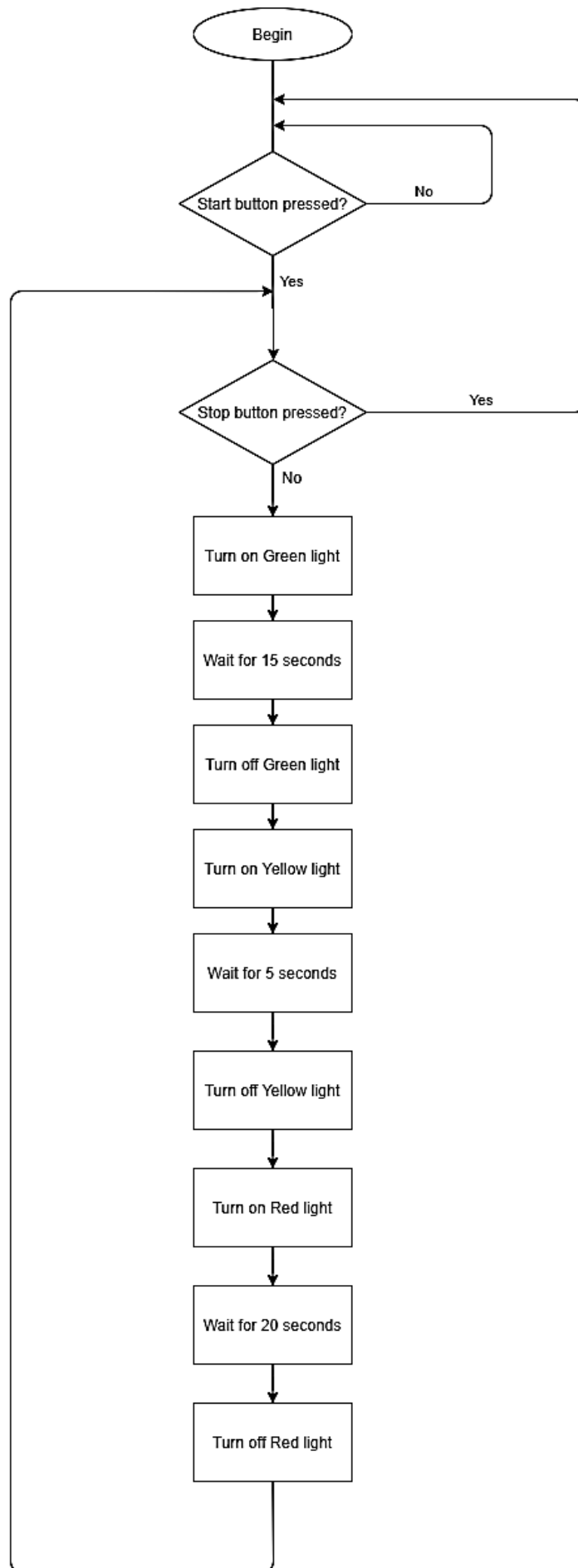
Date: 12 April 2020

HOMEWORK

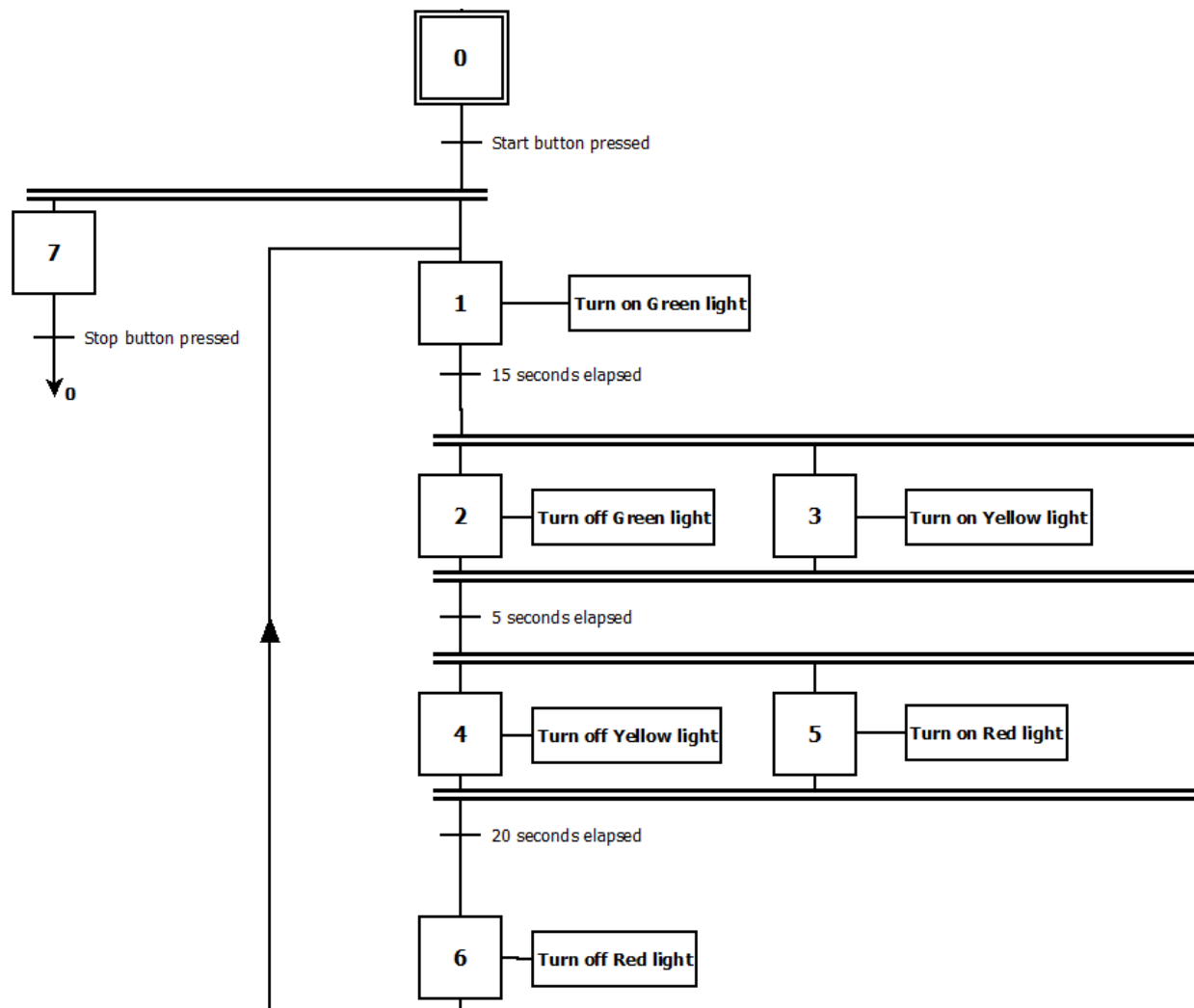
Draw a general and Grafcet flowchart for the traffic lights with the requirements:

Green: 15s, Yellow: 5s, Red: 20s.

General flowchart



Grafcet flowchart



The stop buttons in two flowcharts have different meanings. The stop button in Grafcet illustrates an interruption, which means when we press it, the program moves to step 0 immediately. However, when we press stop button in general flowchart case, the program still runs until the end of the loop (Red light turns off), starts a new loop, checks the condition again and then performs it.