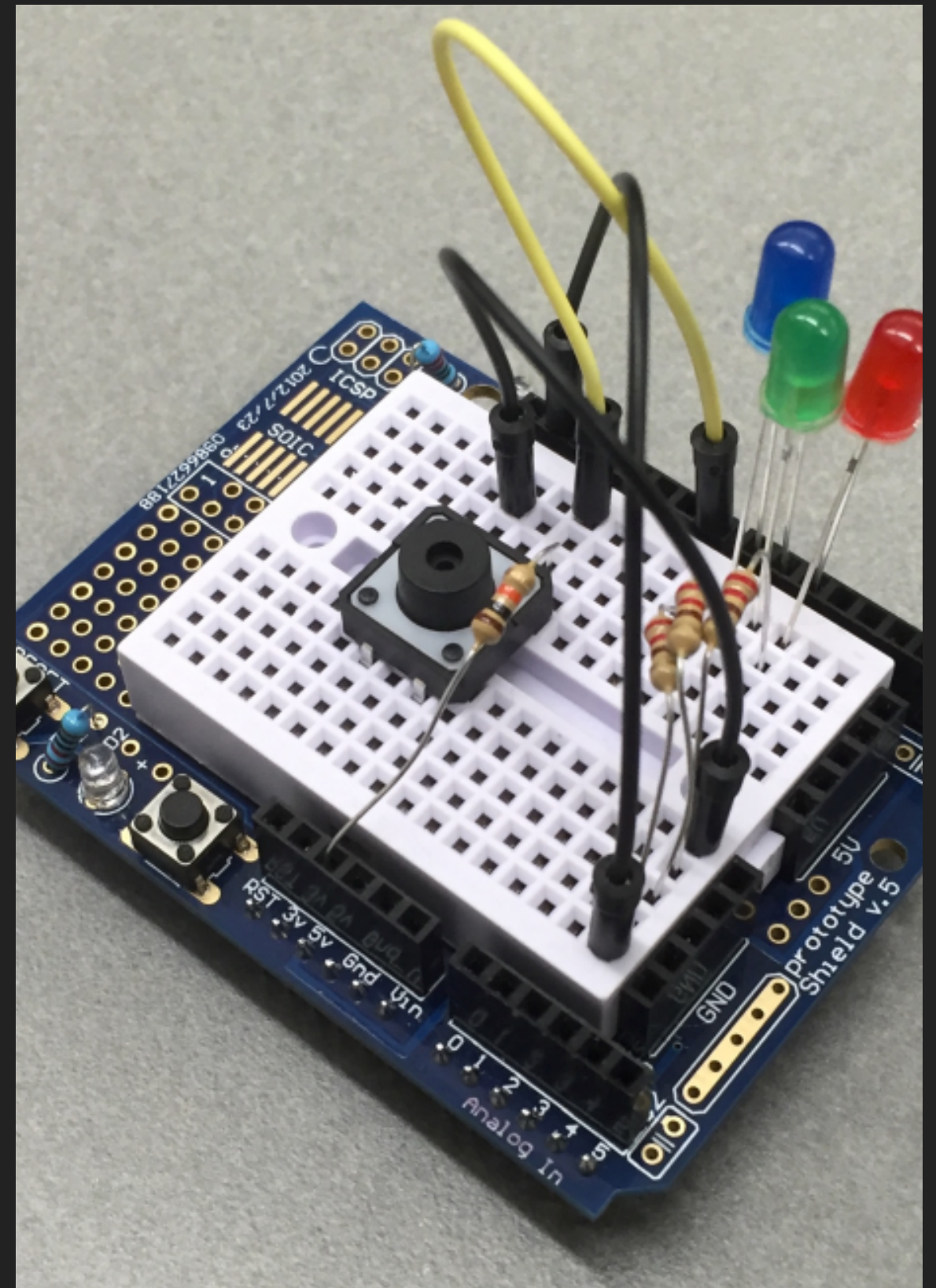EC544 CHALLENGE 6

GROUP 4
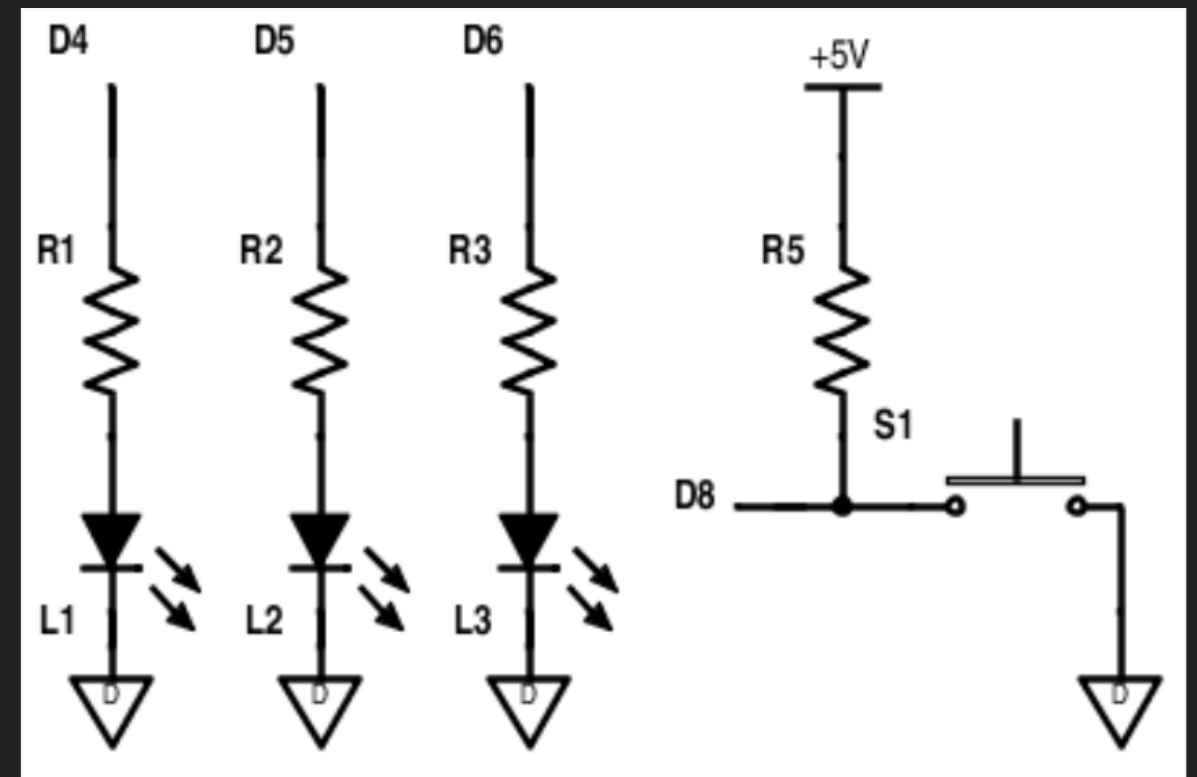
OUR GOAL

▸ Create a swarm with the Arduinos

▸ One leader   is elected on startup per connected   network

▸ A new leader is elected if an existing leader   disappears or is turned off

▸ While infected, each device will send out infection messages to other connected devices with a fixed period of 2 seconds

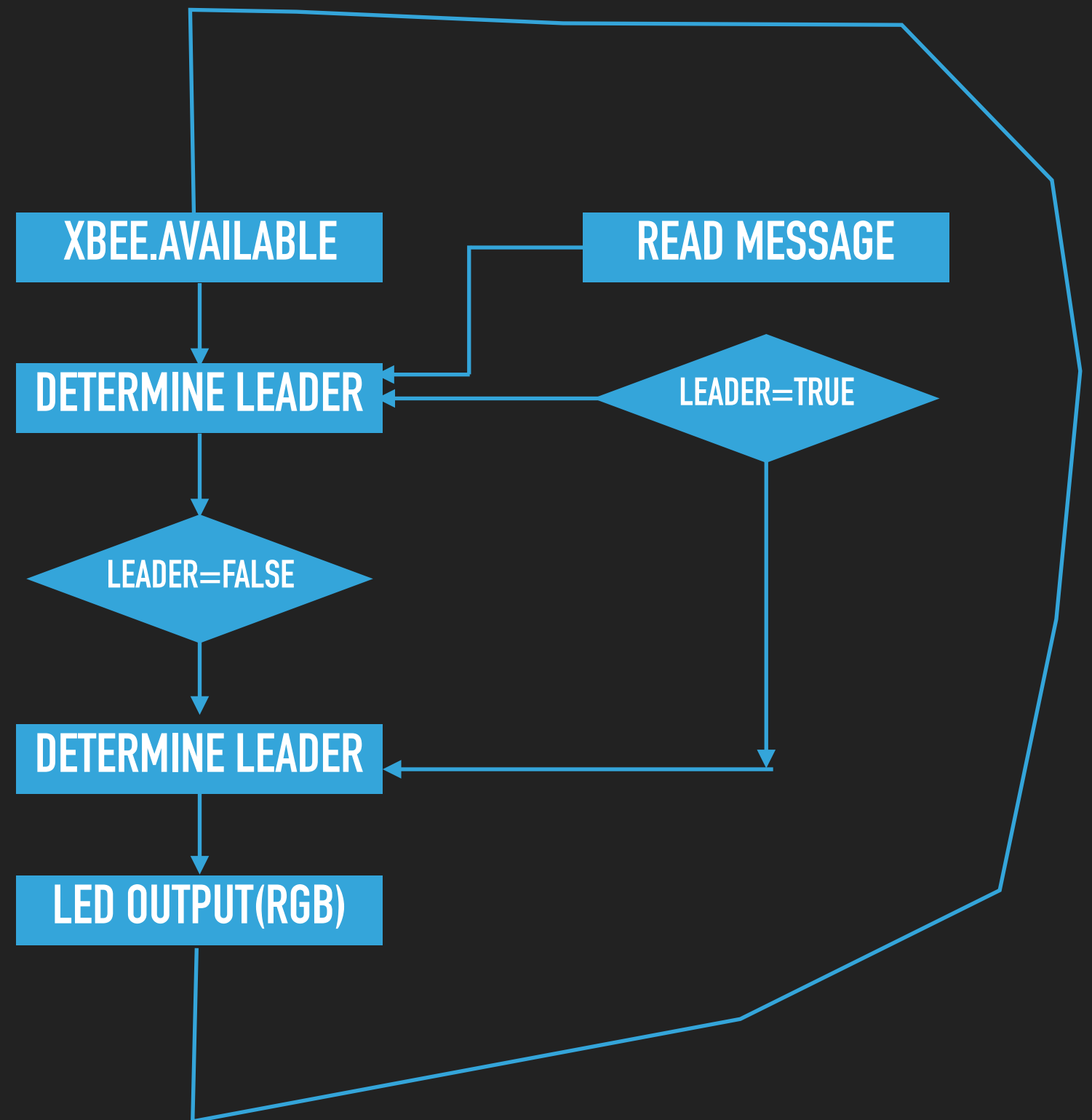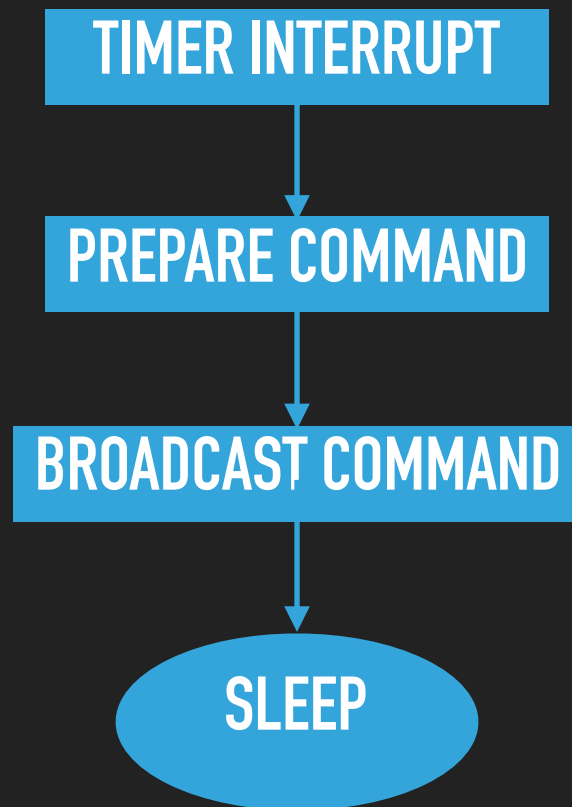▸ A clear infection message has priority over infection message

DESIGN PATTERN

▸ Set the blue LED as Leader, the green as not infexted, and red as infected.

▸ The leader is immune to infections and cannot infect itself

▸ Pressing the button causes a non-leader to infect itself.

ALGORITHMS

THANK YOU !

Group 4