

Mid-Term Project

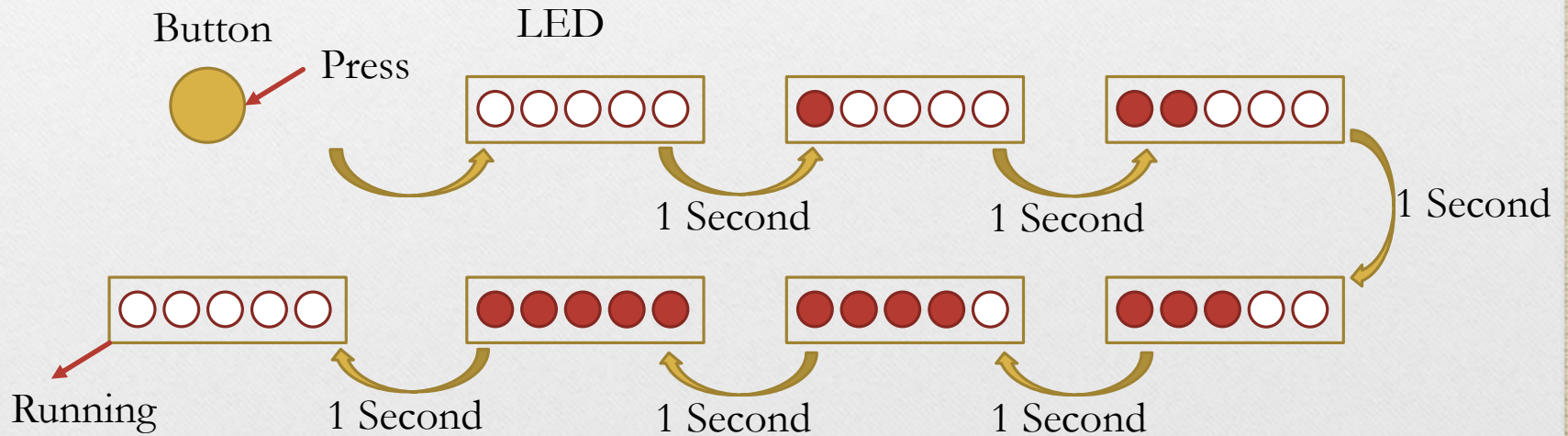
Race Control Light

Overview

- Do the following parts of this project
 - Part 1: Countdown for the race (30%)
 - Part 2: Suspend, resume and terminate the race (30%)

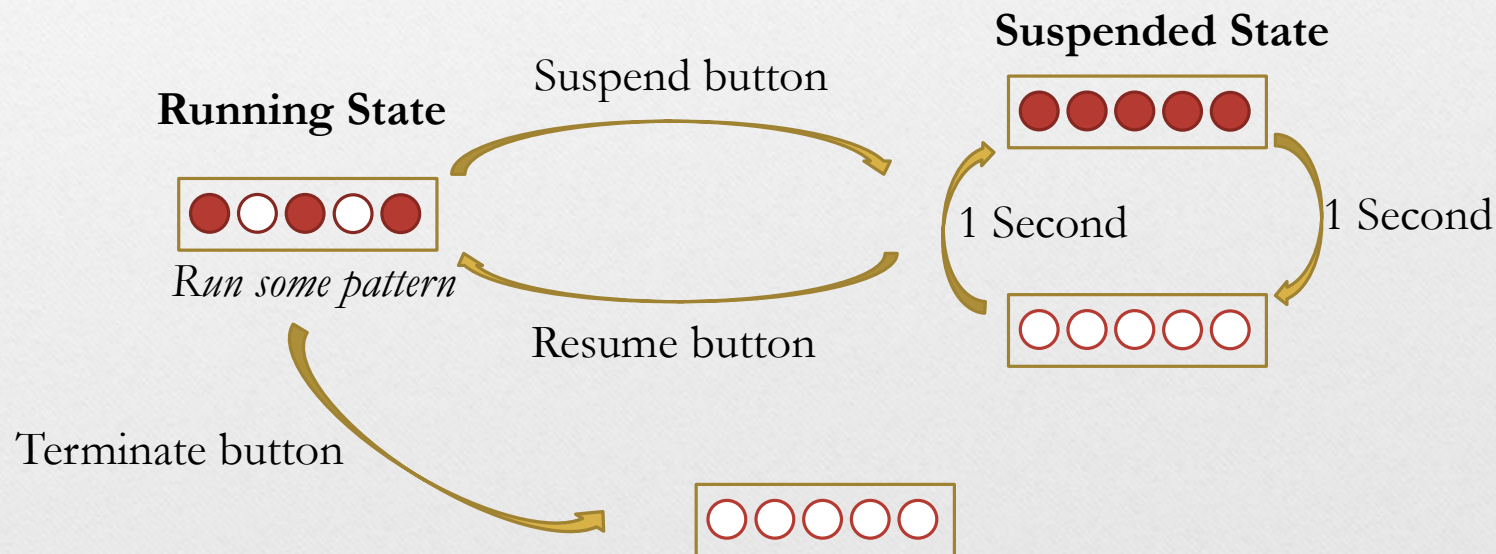
Part 1: Countdown for the Race

- After pressing a button, start to countdown for the race

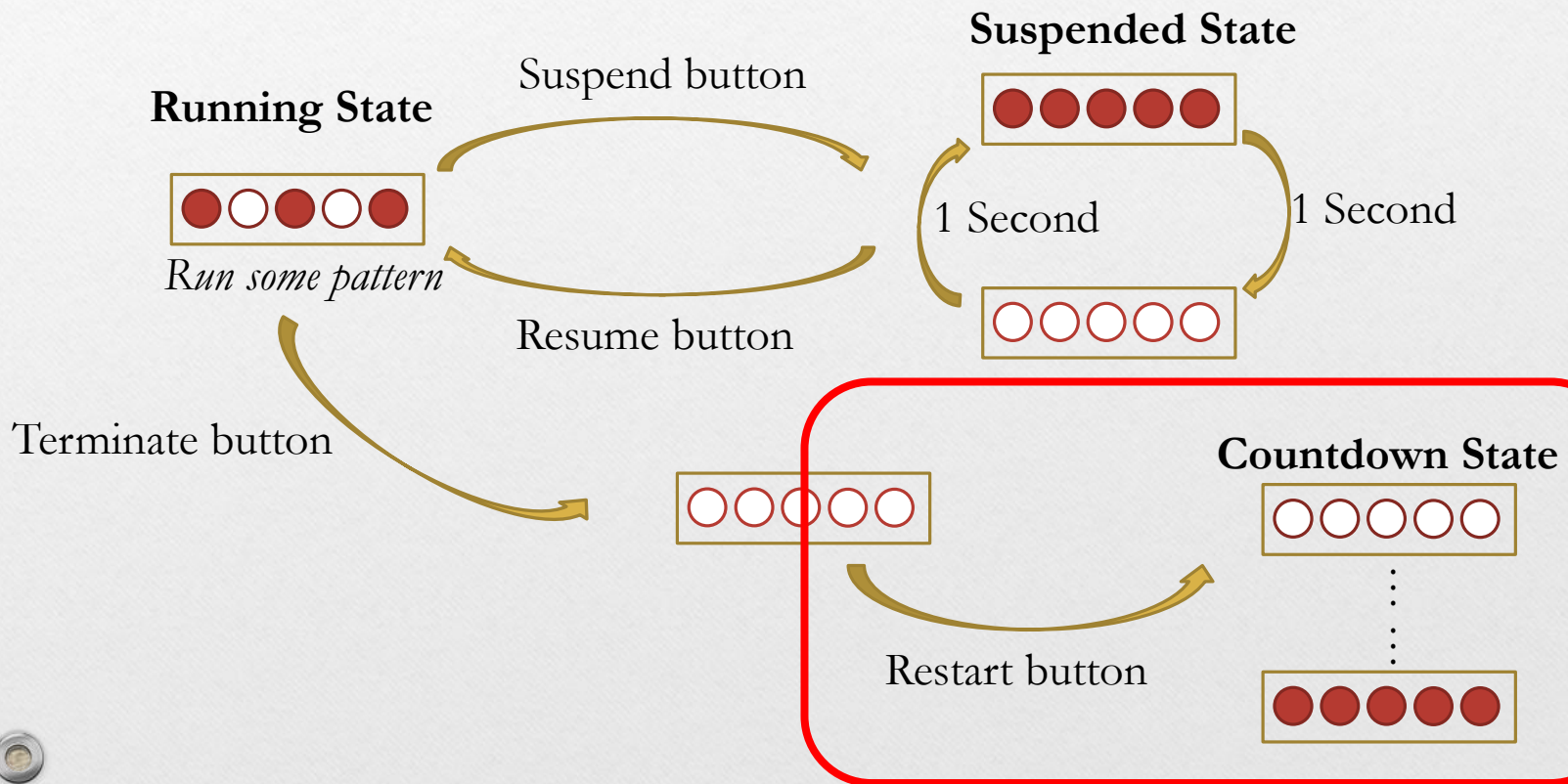


Part 2: Suspend, Resume and Terminate the Race

- A suspend button, a resume button and a terminate button



Bonus 1: Restart (10%)



Bonus 2: Click Racing (10%+10%)

- Players: User 1 and User 2
- Rules
 - During the running phase, two users press their buttons
 - The number of button pressing of each user should be recorded
 - The more times of button pressing, the faster user
- Requirements
 - Use LED to show the current leader

Report (20%)

- File name: Bxxxxxxx-Midterm
- File type: PDF only
- The requirements of report
 - Summarize the problems and results you have in this exercise
 - Some screen shots or some code explanation can be provided
 - No more than two A4 pages
 - One more bonus is done, one more page you can use
 - Grading: 80 ± 15
- Deadline: 2021/12/1 23:00 (不收遲交)
- Upload to e-learning system

Summary of Grading

- Part 1: Countdown for the race (30%)
- Part 2: Suspend, resume and terminate the race (30%)
- Report (20%): 80 ± 15
- Two questions during your demonstration (10%)
- Bonus 1 (10%)
- Bonus 2 (10%)+Extra Discussion of Debounce(10%)