Problem 1

1.1 You have 5 threads running concurrently. Consider the global state $\Sigma(6,2,3,4,5)$; how many paths are there to reach this global state? How many events occur on the longest path and on the shortest path?

1.2 Give a concrete example of application of Logical Clocks for communication protocols; discuss how they are used for error control and flow control.

1.3 How are the real clocks used to implement another critical mechanism for communication in the Internet?

Problem 2, 3, 4

Solve problems 7.3, 7.25, and 7.26 from pages 7.11 and 7.119 of the online text book.

Problem 5, 6, 7

Solve problems 8.3, 8.4, and 8.10 from pages 8.65, 8.67 of the online text book.