

Parallel & Concurrent Programming

Theory Assignment 1: Filter Lock Correctness

Spring 2022

In the class, we discuss about Filter Lock and its correctness proof. We discussed a modification to Lemma 2.4.1 as shown below. Please prove or disprove the modified lemma. Note that you disprove a statement (or lemma) by giving a counter-example.

Lemma 2.4.1: For j between 1 and $n - 1$, there are at most $n - j + 1$ threads at level j .

Due Date: 23rd January 2022 (Sunday), 9:00 pm