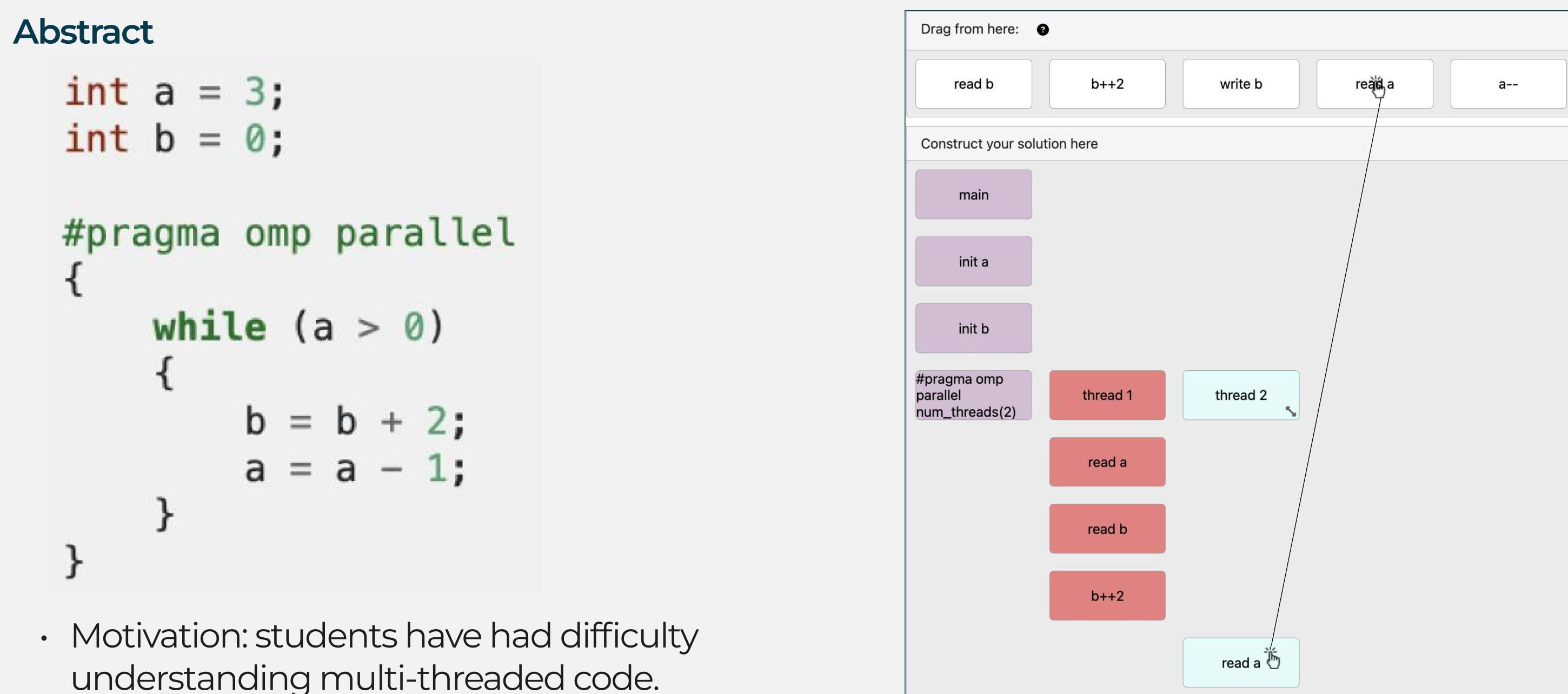


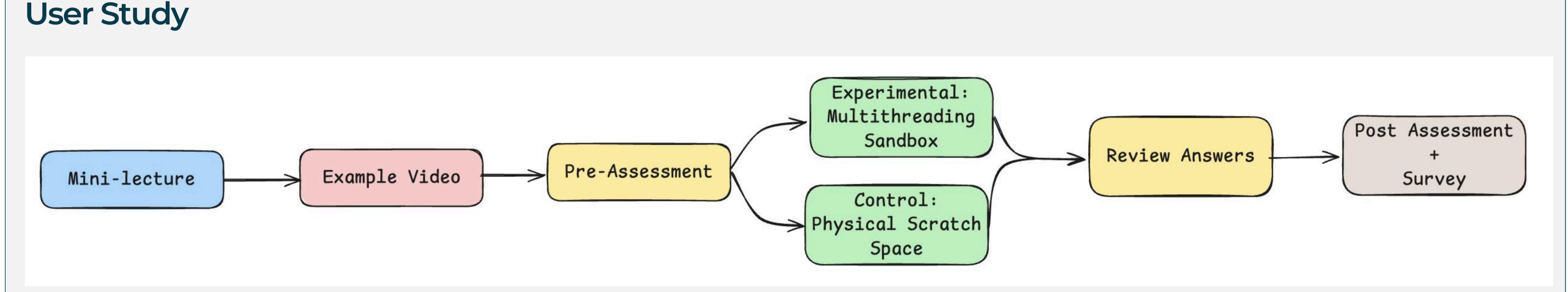
Digital Tracetables

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CS 194: Star Assessments for Mastery Learning

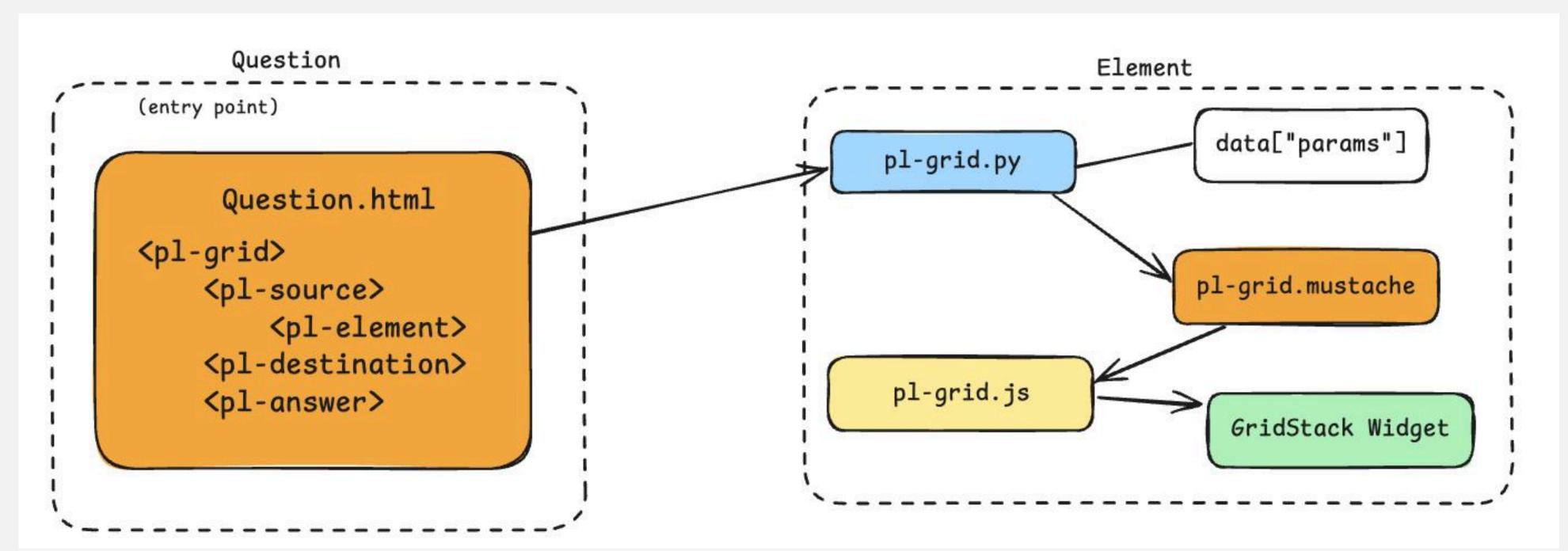




RQ1: What are the learning gains between students that use Digital Trace Tables compared to students who complete the discussion worksheet.

RQ2: What are students' perceptions about the usability of the Multithreading Sandbox?

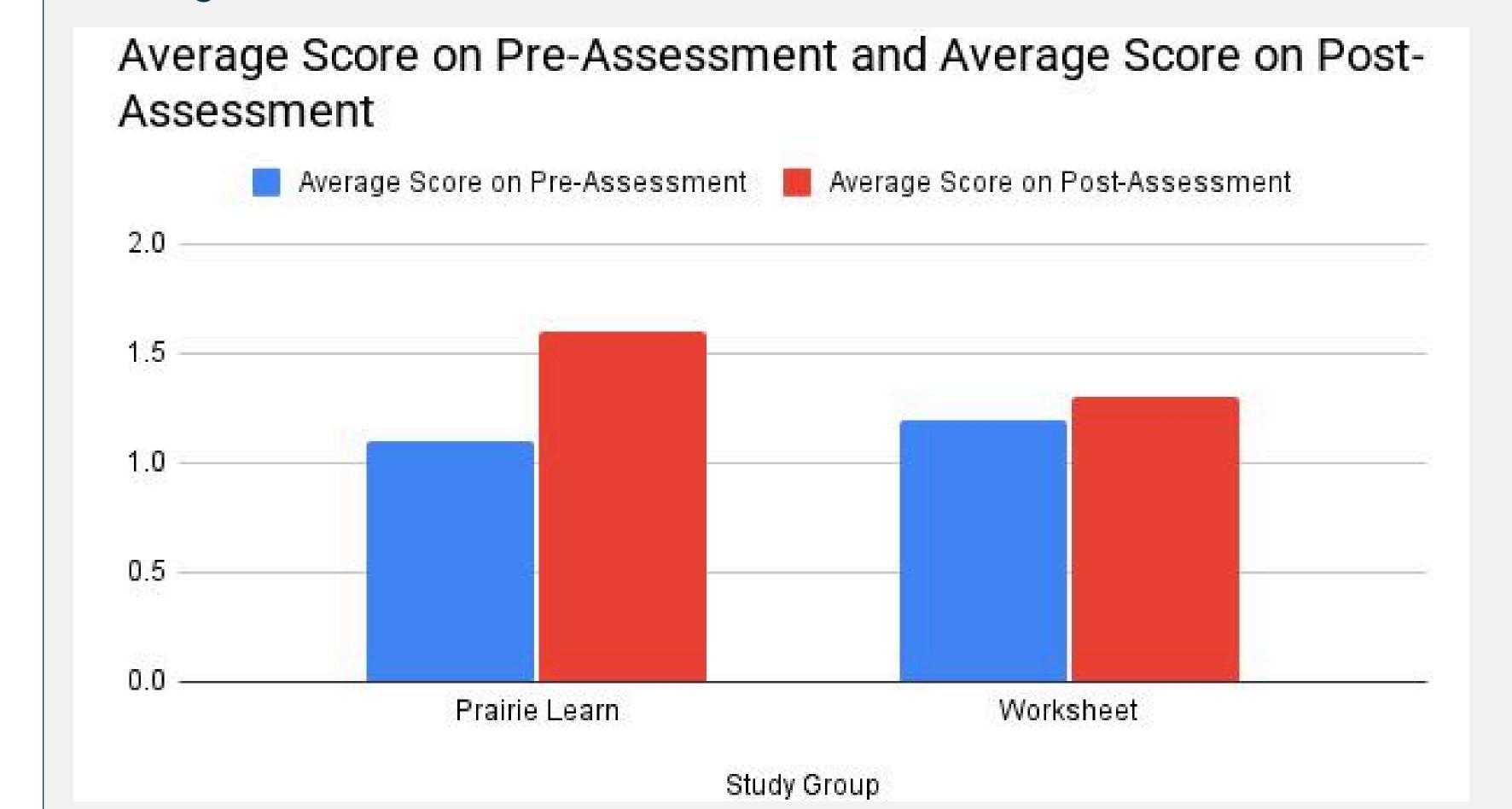
PL Grid Element



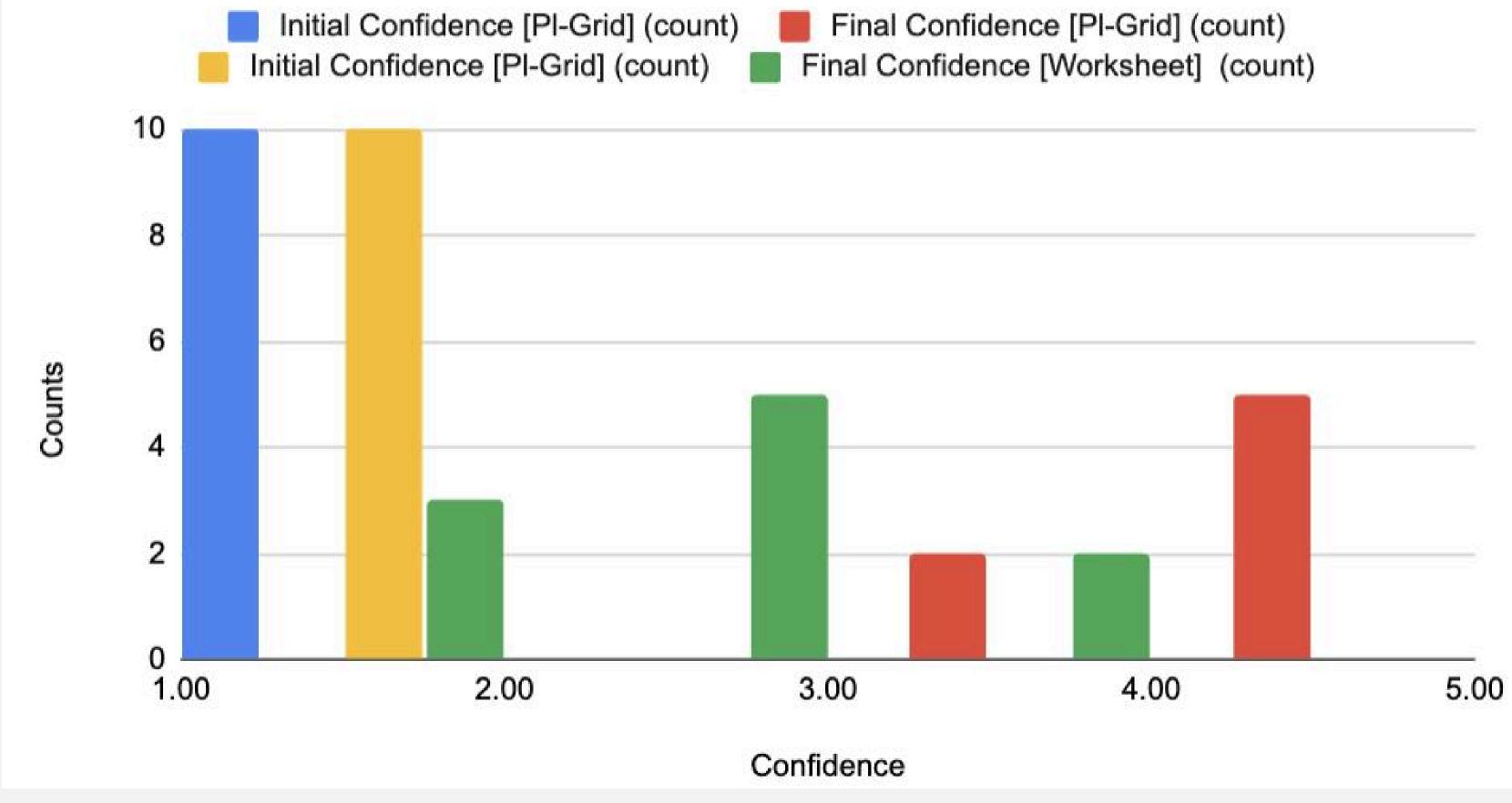
Customizable Features

- 1. Number of columns (maximum of
- 2. Number of rows
- 3. Blocks used to make the solution grid
- 4. Partial pre-population of the solution grid
- 5. Coloring of blocks

Study Results







User Feedback & Next Steps

User Feedback

- 1. Enable copy & pasting of grid blocks because dragging can get a bit tedious
- 2. Add more instructions on how to use the grid element because it wasn't immediately clear.
- 3. Grid made learning parallelism more intuitive & fun

Next Steps

1. The PL-Grid can be repurposed for classes that require a grid of variable states or execution order. Potential classes the tool can expand to are: CS10, CS61B, and CS61C