**JUL 6 Conditional statements, loops, arrays, matrices**

**Concepts (blank page review)**

Array

Size (dynamic, not fixed; higher dimensions), length, numel

Index (arr(i), a(i, j))

Colon notation (a:b, a:b:c)

Subarray assignment/creation

Plot; input; display; fprintf

Control flow

Branching: if statements

Nested if statements

Looping: while/for loop

Control manipulation (break, continue)

Nested loops

For-while translation

Induction

Base case

Induction hypothesis

Inductive step

Top-down design

**Problems (whiteboard, notebook)**

**Recap (flow chart)**