

Today's topic: Synthesis and review; wrap-up.

1. List the members of your group below. Underline your name.
  
2. Trace the generation of a  $4 \times 4$  maze using the algorithm of Section 24.2.1 in the textbook.
  - Number the maze cells in row-major order, as in Figure 24.2.
  - Follow the scheme of Figures 24.2–24.4 when tracing the algorithm. Depict all details for at least five steps.
  - Depict the state of the union-find data structure (in both forest and array forms) at each step, following the conventions of Figure 24.18. Use *union-by-rank with path compression*.
  - Use the following pseudorandom sequence for selecting walls:  
5, 13, 8, 0, 7, 11, 4, 6, 14, 2, 12, 15, 10, 1, 3, 9

[additional space for answering the earlier question]