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Final Project Proposal: Multidimensional Sudoku Generator, UI, and Solver

Traditional sudoku is played on a 9x9 grid. For my project, I propose to build a game of $(n^2)^d$ sudoku – a game of sudoku that can be any square size (4, 9, 16, 25, etc.) in dimensions of 2 or greater.

At a minimum, I will produce:
- a generator of partial, solveable 9x9 or 9x9x9 sudoku games
- a UI to display and allow for solving the games by hand
- an AI to solve the games automatically

Ideally, I will produce:
- a generator of partial, solveable $(n^2)^d$ sudoku games
- a UI to display and allow for solving games of at least d={2,3,4}
- an AI to solve the games automatically