

Operating Systems Lab 3: Sudoku Validator

Name	Student ID
Siddharth Tripathi	100661875
Peter Levine	100546643
Harasees Singh Gill	100656810

This lab involved the creation of a Sudoku Validator program which makes use of threads within the C language. The program has three functions: a rowCheck, a columnCheck, and a squareCheck. Each function uses a thread, and cycles through the nine positions for each of the elements. Both rowCheck and columnCheck work in the exact same fashion, an iterator is moved throughout the row/column and is compared with the other locations to see if there are any duplicates, if no duplicates exist, then that row/column has been checked successfully. For the squareCheck, all the values are stored in their own array (square to square 9). Then, the array of numbers in each square are checked for duplicates. If no duplicates exist, then the squares have also been fully checked.