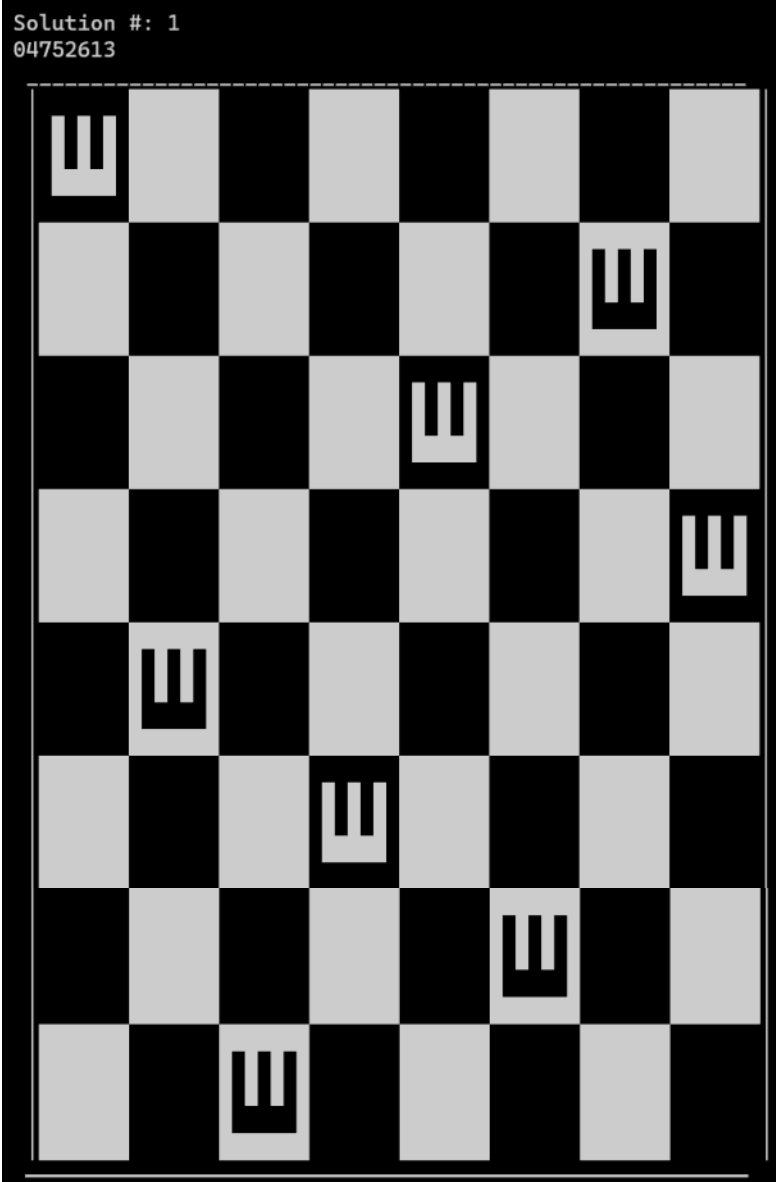


8 Queens - Fancy print By Muhammad Yassa Short Report/Summary.

Tuesday, 5 December 2023 6:49 PM

This program uses the same code we used for the 8 Queens problem, it uses a backtracking algorithm to find all possible solutions and prints out the solution when one is found. The print function uses pointers and typedef to print out a fancy chessboard. We first create a data type called "box" which are an array of 5x7 of chars. We initialize a black box, white box, black queen, white queen and a board which is an array of 8x8 that point to "box" data types. We then fill the board with the addresses of black box and white box alternatingly depending on if the grid box is odd or even. We then create a pattern that is similar to a Queen in the white queen box and the black queen box, then using the solution array we got from the main function we fill "board" with the respective addresses. We then print the board out and a border around it. The next time this function is called the board array is then filled with black boxes and white boxes again, and using the next solution array, the respective queens.



Solution #: 92
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