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CSCI 211- Professor Zhou

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Eight Queens Problem

A picture containing text, electronics, keyboard, black

Description automatically generatedThe Eight Queens problem was different what I had solved previously because I never had written a program using goto statements. However, it made writing the program a lot easier because whenever in real time I would say to “go to” a program, I can simply type goto within the code. The confusing part for myself was being able to go back and determine other solutions because I would have thought that I needed to keep track of each solution I found. The reason for this is because I thought that if I didn’t, it would print the same solution every single time. However, using the backtrack function, I was able to keep track of where each queen was being placed and knowing that there isn’t a duplicate as the backtrack function would place the next available spot for the queen. The purpose of this code is to be able to come up with all the combinations in which there are 8 queens placed that are not a threat to one another on a chess board.

Output:

This output shows that there are 92 solutions, and I could not

screenshot every solution however, with the code every single one is outputted.