Assignment 4: Constraint Satisfaction Problems, Stian Mogen

a) Solutions b) Number of backtrack calls and failed

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8 6 2 | 3 1 4 | 7 9 5
1 9 7 | 6 5 8 | 2 4 3
sudoku/hard.txt
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c) Brief comments about results

Considering the increasing complexity of the problems and corresponding solutions, it makes perfect sense that the number of necessary backracking calls and attempts increase as well. Increased difficulty in sudoku corresponds with the number of possibilities one have to check before the correct answer presents itself. Easier problems can be solved by quite easily by knowing the conditions / rules, among other things due to having more numbers already available on the board. I was still surprised to see 0 failures for both easy.txt and medium.txt. It is good to see failed attempts at hard.txt and veryhard.txt. By necessity one will run into failed attempts and having to check more possibilities on more difficult problems, which is the whole point of implementing backtracking in the first place.