

Easy

```
easy.txt
7 8 4 | 9 3 2 | 1 5 6
6 1 9 | 4 8 5 | 3 2 7
2 3 5 | 1 7 6 | 4 8 9
-----+-----+-----
5 7 8 | 2 6 1 | 9 3 4
3 4 1 | 8 9 7 | 5 6 2
9 2 6 | 5 4 3 | 8 7 1
-----+-----+-----
4 5 3 | 7 2 9 | 6 1 8
8 6 2 | 3 1 4 | 7 9 5
1 9 7 | 6 5 8 | 2 4 3
-----
Number of backtrack calls: 1
Number of backtrack failures: 0
```

Figure 1: Solution for the easy sudoku board. The backtrack function was called only once, and there were no instances in which the backtrack function returned a failure.

TODO: [Some comments about count related to theory]

Medium

```
medium.txt
8 7 5 | 9 3 6 | 1 4 2
1 6 9 | 7 2 4 | 3 8 5
2 4 3 | 8 5 1 | 6 7 9
-----+-----+-----
4 5 2 | 6 9 7 | 8 3 1
9 8 6 | 4 1 3 | 2 5 7
7 3 1 | 5 8 2 | 9 6 4
-----+-----+-----
5 1 7 | 3 6 9 | 4 2 8
6 2 8 | 1 4 5 | 7 9 3
3 9 4 | 2 7 8 | 5 1 6
-----
Number of backtrack calls: 3
Number of backtrack failures: 0
```

Figure 2: Solution for the medium sudoku board. The backtrack function was called a total of 3 times, and there were still no instances in which the backtrack function returned a failure.

TODO: [Some comments about count related to theory]

Hard

```
hard.txt
1 5 2 | 3 4 6 | 8 9 7
4 3 7 | 1 8 9 | 6 5 2
6 8 9 | 5 7 2 | 3 1 4
-----+-----+-----
8 2 1 | 6 3 7 | 9 4 5
5 4 3 | 8 9 1 | 7 2 6
9 7 6 | 4 2 5 | 1 8 3
-----+-----+-----
7 9 8 | 2 5 3 | 4 6 1
3 6 5 | 9 1 4 | 2 7 8
2 1 4 | 7 6 8 | 5 3 9
-----
Number of backtrack calls: 12
Number of backtrack failures: 4
```

Figure 3: Solution for the hard sudoku board. The backtrack function was called a total of 12 times, and there were 4 instances in which the function returned a failure.

TODO: [Some comments about count related to theory]

Very hard

```
veryhard.txt
4 3 1 | 8 6 7 | 9 2 5
6 5 2 | 4 9 1 | 3 8 7
8 9 7 | 5 3 2 | 1 6 4
-----+-----+-----
3 8 4 | 9 7 6 | 5 1 2
5 1 9 | 2 8 4 | 7 3 6
2 7 6 | 3 1 5 | 8 4 9
-----+-----+-----
9 4 3 | 7 2 8 | 6 5 1
7 6 5 | 1 4 3 | 2 9 8
1 2 8 | 6 5 9 | 4 7 3
-----
Number of backtrack calls: 68
Number of backtrack failures: 57
```

Figure 4: Solution for the very hard sudoku board. In this solution, the backtrack function was called a total of 68 times, and a total of 57 failures were returned.

TODO: [Some comments about count related to theory]