Hello, this is the Sudoku Solver!
****

Your puzzle:

```
0 4 0 | 0 9 0 | 0 0 6
0 7 5 | 0 0 0 | 8 0 0
0 0 0 | 0 0 0 | 0 0 9
0 0 0 | 0 5 0 | 0 0 0
4 0 0 | 0 0 1 | 0 9 0
0 0 7 | 0 0 6 | 0 2 0
0 0 0 | 5 0 0 | 0 4 0
8 0 0 | 0 0 0 | 0 0 0
5 0 0 | 0 0 7 | 0 0 0
```

Enter 1 to input a value.

Enter 2 to start the puzzle over.

Enter 3 to show solution.

Enter 4 to display initial puzzle.

Enter 5 to end working on this puzzle and create another one.

Enter 6 to quit program

3

This is the solution:

```
1 4 2 | 3 9 8 | 5 7 6
9 7 5 | 1 6 2 | 8 3 4
6 3 8 | 4 7 5 | 2 1 9
2 1 9 | 7 5 3 | 4 6 8
4 5 6 | 8 2 1 | 3 9 7
3 8 7 | 9 4 6 | 1 2 5
7 2 1 | 5 8 9 | 6 4 3
8 9 3 | 6 1 4 | 7 5 2
5 6 4 | 2 3 7 | 9 8 1
```

****

Your puzzle:

```
0 4 0 | 0 9 0 | 0 0 6
0 7 5 | 0 0 0 | 8 0 0
0 0 0 | 0 0 0 | 0 0 9
0 0 0 | 0 5 0 | 0 0 0
4 0 0 | 0 0 1 | 0 9 0
0 0 7 | 0 0 6 | 0 2 0
0 0 0 | 5 0 0 | 0 4 0
8 0 0 | 0 0 0 | 0 0 0
5 0 0 | 0 0 7 | 0 0 0
```

Enter 1 to input a value.

Enter 2 to start the puzzle over.

Enter 3 to show solution.

Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
5
Creating another puzzle...
****

Your puzzle:
0 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
3
This is the solution:
1 9 4 | 3 5 8 | 7 6 2
6 3 2 | 7 1 4 | 5 9 8
8 5 7 | 6 2 9 | 1 3 4
2 7 8 | 4 9 5 | 3 1 6
5 4 3 | 1 8 6 | 9 2 7
9 1 6 | 2 3 7 | 8 4 5
3 8 9 | 5 4 2 | 6 7 1
7 2 1 | 8 6 3 | 4 5 9
4 6 5 | 9 7 1 | 2 8 3
****

Your puzzle:
0 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0

0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
1
What (row, col) do you want to add a value to (1 - 9)?
1 1
0 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to see possible values.
5
Please enter a valid menu number.
Enter 1 to input a value.
Enter 2 to see possible values.
1
What value do you want to input?
5
****
Your puzzle:
5 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.

Enter 5 to end working on this puzzle and create another one.

Enter 6 to quit program

1

What (row, col) do you want to add a value to (1 - 9)?

1 2

5 0 0 | 0 0 0 | 0 0 2

0 0 0 | 7 0 0 | 5 9 0

0 0 0 | 0 0 9 | 0 0 0

2 0 0 | 0 0 5 | 0 1 0

0 4 0 | 0 8 6 | 0 0 0

0 0 6 | 0 3 0 | 0 0 5

0 8 9 | 0 0 0 | 6 7 0

0 0 1 | 8 0 3 | 0 5 0

0 6 0 | 9 0 0 | 2 0 0

Enter 1 to input a value.

Enter 2 to see possible values.

1

What value do you want to input?

7

****

Your puzzle:

5 7 0 | 0 0 0 | 0 0 2

0 0 0 | 7 0 0 | 5 9 0

0 0 0 | 0 0 9 | 0 0 0

2 0 0 | 0 0 5 | 0 1 0

0 4 0 | 0 8 6 | 0 0 0

0 0 6 | 0 3 0 | 0 0 5

0 8 9 | 0 0 0 | 6 7 0

0 0 1 | 8 0 3 | 0 5 0

0 6 0 | 9 0 0 | 2 0 0

Enter 1 to input a value.

Enter 2 to start the puzzle over.

Enter 3 to show solution.

Enter 4 to display initial puzzle.

Enter 5 to end working on this puzzle and create another one.

Enter 6 to quit program

4

0 0 0 | 0 0 0 | 0 0 2

0 0 0 | 7 0 0 | 5 9 0

0 0 0 | 0 0 9 | 0 0 0

2 0 0 | 0 0 5 | 0 1 0

0 4 0 | 0 8 6 | 0 0 0

0 0 6 | 0 3 0 | 0 0 5

089|000|670
001|803|050
060|900|200
****

Your puzzle:
570|000|002
000|700|590
000|009|000
200|005|010
040|086|000
006|030|005
089|000|670
001|803|050
060|900|200
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
1
What (row, col) do you want to add a value to (1 - 9)?
9 9
570|000|002
000|700|590
000|009|000
200|005|010
040|086|000
006|030|005
089|000|670
001|803|050
060|900|200
Enter 1 to input a value.
Enter 2 to see possible values.
1
What value do you want to input?
2
Value: 2 on (9, 9) is not legal!
****

Your puzzle:
570|000|002
000|700|590
000|009|000

2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
1
What (row, col) do you want to add a value to (1 - 9)?
9 4
5 7 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to see possible values.
1
What value do you want to input?
8
Value: 8 on (9, 4) is not legal!
****
Your puzzle:
5 7 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.

Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
4
0 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
****

Your puzzle:
5 7 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0
Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
2
****

Your puzzle:
0 0 0 | 0 0 0 | 0 0 2
0 0 0 | 7 0 0 | 5 9 0
0 0 0 | 0 0 9 | 0 0 0
2 0 0 | 0 0 5 | 0 1 0
0 4 0 | 0 8 6 | 0 0 0
0 0 6 | 0 3 0 | 0 0 5
0 8 9 | 0 0 0 | 6 7 0
0 0 1 | 8 0 3 | 0 5 0
0 6 0 | 9 0 0 | 2 0 0

Enter 1 to input a value.
Enter 2 to start the puzzle over.
Enter 3 to show solution.
Enter 4 to display initial puzzle.
Enter 5 to end working on this puzzle and create another one.
Enter 6 to quit program
6
Process finished with exit code 0