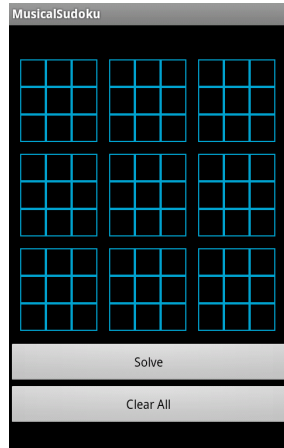


## Test Suite **Test Input of a Number:**

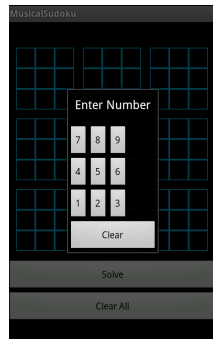
### **Test input of numbers 1-9**

0.) Start the program

1.) Select an arbitrary cell in the sudoku grid

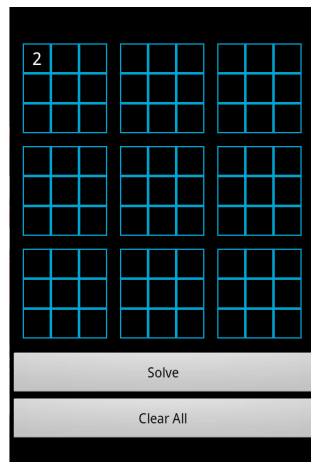


2.) A dialogue box should appear



3.) Select a number (1-9)

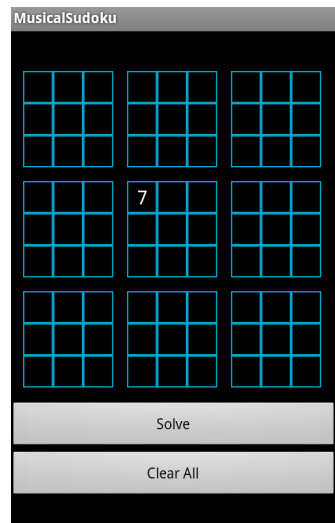
4.) Observe that the cell now has the number



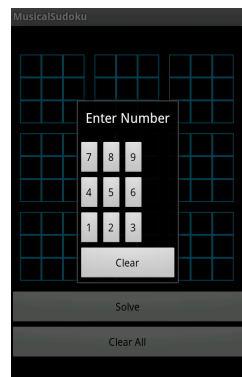
## Test input clear

0.) Start the program

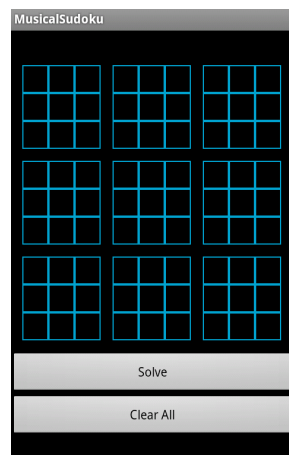
1.) Input a random number into a cell



2.) Select the cell again and click on clear in the dialogue box



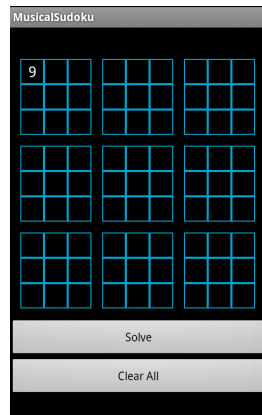
3.) Now observe that the number is gone



(y,x)-(column,row)

### Test input rows

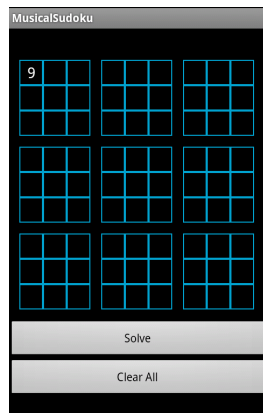
- 0.) Start the program
- 1.) Input the number 9 into cell (0,0)



- 2.) Now attempt to input number 9 into (0,1)
- 3.) Observe that cell (0,1) does not change

### Test input columns

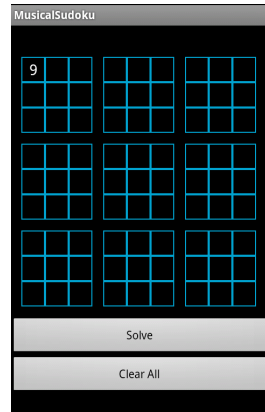
- 0.) Start the program
- 1.) Input the number 9 into cell (0,0)



- 2.) Now attempt to input number 9 into (1,0)
- 3.) Observe that cell (1,0) does not change

## Test input box/section

0.)Start the program



1.)Input the number 9 into cell (0,0)

2.)Now attempt to input number 9 into (2,2)

3.)Observe that cell (2,2) does not change

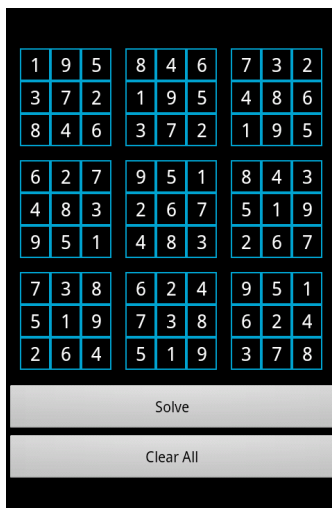
## Test Solver:

### Test Blank Puzzle Solve:

0.)Start the program

1.)Press the solve button

2.)Observe that the program does not crash and all squares are filled



### Test Easy Puzzle Solve:

0.)Start the program

1.)Enter these numbers:

(Source: <http://www.websudoku.com/>)

2.)Press the solve button

Here is the puzzle. Good luck!

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

3.)Now Observe that the puzzle matches exactly this solution:

(Solution from: <http://www.sudoku-solutions.com/>)

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

MusicalSudoku

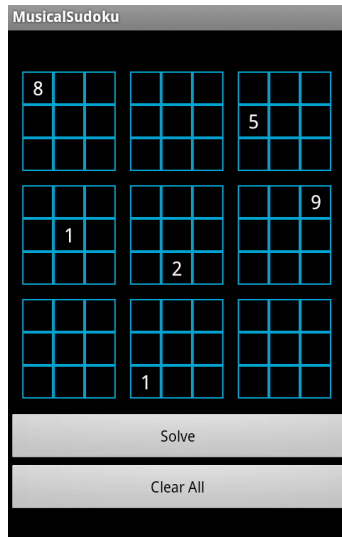
8	2	3	6	9	7	5	4	1
4	7	9	1	5	2	6	8	3
6	5	1	4	8	3	7	9	2
5	9	7	3	1	8	2	6	4
2	1	6	7	4	9	8	3	5
3	8	4	2	6	5	1	7	9
9	3	2	8	7	1	4	5	6
1	4	8	5	3	6	9	2	7
7	6	5	9	2	4	3	1	8

Solve

Clear All

### Test Clear All Button:

- 1.) Start the program
- 2.) Enter into multiple cells arbitrary numbers



- 3.) Press the "Clear All" button
- 4.) Observe that all the numbers are gone

