

Steps to run sudokuSolver.py

- 1) Use the command "python3 sudokuSolver.py" to run sudokuSolver.py.
- 2) When asked to enter a file containing a sudoku puzzle you want to solve, you can use SampleInputFile.txt or provide the path to a file that has the same format as SampleInputFile.txt. The dots in SampleInputFile.txt represent blank spaces in a sudoku puzzle. Suppose we want to solve the sudoku puzzle below.

	1	2	3	4	5	6	7	8	9
A	5						3		2
B			1		2	3	4		
C					9	6	1		
D			5	9		4	2	8	7
E				6	7		5		
F		1		2	3				
G	7	9		3			8	4	5
H	4					2	9	1	3
I	1		8		5				

We would have to make a text file that contains the content below.

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

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Suppose we ran sudokuSolver.py and used SampleInputFile.txt as input. The picture below shows what you would see.

```
[vihanpatel@Vihans-MacBook-Pro SudokuSolver % python3 sudokuSolver.py  
Enter a file that contains a sudoku puzzle you want to solve: SampleInputFile.txt
```

INPUT

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

SOLUTION

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