

Sample Runs on SudokuSolver.pl

Sample 1:

?- sudoku.

Note:: If Errors are found, Errors would be displayed.

If Success, no Errors would be displayed.

```
|: [1,_,_,2,_,_,6,_,_,8,_,_,_,_,_,9,_,_,_,6,_,_,_,_,3,_,_,_,_,2,_,_,_,_,_,_,_,_,_,
_,_,_,8,_,_,_,_,_,_,_,_,5,_,_,_,_,9].
```

Checking Total number of elements ...

Instantiating to variables ...

Checking whether content of each cell is within [0,9] ...

Checking whether each Row has distinct numbers ...

Checking whether each Column has distinct numbers ...

Checking whether each 3 X 3 square grid has distinct numbers ...

true .

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

Fig. 1: Depiction of the given input.

Sample 2:

?- sudoku.

Note:: If Errors are found, Errors would be displayed.

If Success, no Errors would be displayed.

```
|:[1,1,1,2,_,_,6,_,_,8,_,_,2,11,_,_,9,_,_,_,6,_,_,_,3,_,_,1,1,2,_,_,2,_,_,_,_,7,_,_,_,_,
_,_,_,8,_,_,_,_,_,_,_,_,9,_,_,5,_,_,0,_,_,9].
```

Checking Total number of elements ...

Instantiating to variables ...

Checking whether content of each cell is within [0,9] ...

Error:: The number is greater than 9 [2,6]

Error:: The number is less than 1 [9,5]

Checking whether each Row has distinct numbers ...

Error:: Same elements cannot be in the same Row [1,1] [1,2]

Error:: Same elements cannot be in the same Row [1,1] [1,3]

Error:: Same elements cannot be in the same Row [1,2] [1,3]

Error:: Same elements cannot be in the same Row [5,1] [5,2]

Error:: Same elements cannot be in the same Row [5,3] [5,6]

Checking whether each Column has distinct numbers ...

Error:: Same elements cannot be in the same Column [1,1] [5,1]

Error:: Same elements cannot be in the same Column [1,2] [5,2]

Checking whether each 3 X 3 square grid has distinct numbers ...

Error:: Same elements cannot be in the same 3 X 3 Grid [1,1] [1,2]

Error:: Same elements cannot be in the same 3 X 3 Grid [1,1] [1,3]

Error:: Same elements cannot be in the same 3 X 3 Grid [1,2] [1,3]

Error:: Same elements cannot be in the same 3 X 3 Grid [1,4] [2,5]

Error:: Same elements cannot be in the same 3 X 3 Grid [5,1] [5,2]

Error:: Same elements cannot be in the same 3 X 3 Grid [8,7] [9,9]

True

	1	2	3	4	5	6	7	8	9
1	1	1	1	2			6		
2		8			2	11			
3	9					6			
4	6					3			
5	1	1	2			2			
6					7				
7				8					
8							9		
9	5				0				9

Fig. 2: Depiction of the given input.