2017/9/12 3074 -- Sudoku



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#### Sudoku

Time Limit: 1000MS Memory Limit: 65536K

**Total Submissions:** 10432 **Accepted:** 3762

# **Description**

In the game of Sudoku, you are given a large  $9 \times 9$  grid divided into smaller  $3 \times 3$  subgrids. For example,

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

Given some of the numbers in the grid, your goal is to determine the remaining numbers such that the numbers 1 through 9 appear exactly once in (1) each of nine  $3 \times 3$  subgrids, (2) each of the nine rows, and (3) each of the nine columns.

# Input

http://poj.org/problem?id=3074

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The input test file will contain multiple cases. Each test case consists of a single line containing 81 characters, which represent the 81 squares of the Sudoku grid, given one row at a time. Each character is either a digit (from 1 to 9) or a period (used to indicate an unfilled square). You may assume that each puzzle in the input will have exactly one solution. The end-of-file is denoted by a single line containing the word "end".

## **Output**

For each test case, print a line representing the completed Sudoku puzzle.

### **Sample Input**

```
.2738..1..1...6735......293.5692.8........6.1745.364......9518...7..8..6534.
.....52..8.4.....3...9...5.1...6..2..7......3.....6...1.......7.4.......3.
end
```

### **Sample Output**

527389416819426735436751829375692184194538267268174593643217958951843672782965341 416837529982465371735129468571298643293746185864351297647913852359682714128574936

#### Source

Stanford Local 2006

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