## **Problem 2**

This contest is based on brute force, and where better to apply this technique than in a day to day newspaper game. Hemanshu Bansal has a knack for solving puzzles and he claims that he is very fast always saying that he can solve the problem even before I can start to code. Help me beat him once in for all in this famous game of Sudoku. The objective of Su Doku puzzles is to replace the blanks in a 9 by 9 grid in such that each row, column, and 3 by 3 box contains each of the digits 1 to 9.

You will be given a Sudoku puzzle and your program has to print its solution.

## Input

line 1:T(no. of test cases)

line 2: Grid 01

line 3-11: grid of 9x9

line 12: Grid 02

line 13-21: grid of 9x9

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• • • •

so on.

## Output

line 1: Grid 01(should be same as input)

line 2-10: grid of 9x9(the solution)

line 11: <blank line>

line 12: Grid 02

so on.

In case of multiple solutions print lexicographically minimum solution. Refer to wikipedia for the definition of lexicographical order.

## Example