2017/9/12 3076 -- Sudoku



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Sudoku

Time Limit: 10000MS **Memory Limit:** 65536K

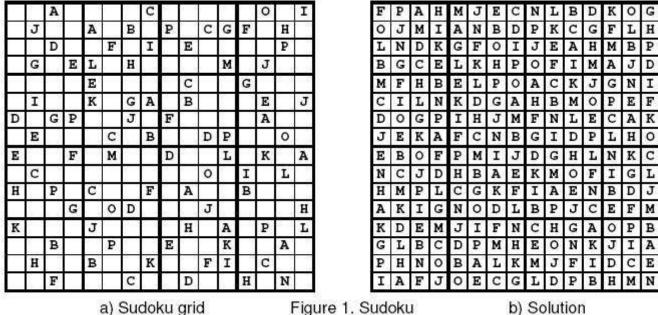
Total Submissions: 5234 Accepted: 2481

Description

A Sudoku grid is a 16x16 grid of cells grouped in sixteen 4x4 squares, where some cells are filled with letters from A to P (the first 16 capital letters of the English alphabet), as shown in figure 1a. The game is to fill all the empty grid cells with letters from A to P such that each letter from the grid occurs once only in the line, the column, and the 4x4 square it occupies. The initial content of the grid satisfies the constraints mentioned above and guarantees a unique solution.

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b) Solution

Write a Sudoku playing program that reads data sets from a text file.

Input

Each data set encodes a grid and contains 16 strings on 16 consecutive lines as shown in figure 2. The i-th string stands for the i-th line of the grid, is 16 characters long, and starts from the first position of the line. String characters are from the set $\{A,B,...,P,-\}$, where – (minus) designates empty grid cells. The data sets are separated by single empty lines and terminate with an end of file.

Output

The program prints the solution of the input encoded grids in the same format and order as used for input.

Sample Input

--D--F-T-E---P-

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-G-EL-H---M-J----E---C-G---I--K-GA-B---E-J
D-GP--J-F---A--E--C-B--DP--OE--F-M--D--L-K-A
-C----O-I-LH-P-C--F-A-B-----G-OD---J---H
K--J---H-A-P-L
--B--P-E--K-A--H-B-K--FI-C---F---C--D--H-N-

Sample Output

FPAHMJECNLBDKOGI OJMIANBDPKCGFLHE LNDKGFOIJEAHMBPC BGCELKHPOFIMAJDN MFHBELPOACKJGNID CILNKDGAHBMOPEFJ DOGPIHJMFNLECAKB JEKAFCNBGI DPLHOM EBOFPMIJDGHLNKCA NCJDHBAEKMOFIGLP HMPLCGKFIAENBDJO AKIGNODLBPJCEFMH KDEMJIFNCHGAOPBL GLBCDPMHEONKJIAF PHNOBALKMJFIDCEG IAFJOECGLDPBHMNK

Source

Southeastern Europe 2006

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