



## Problem: Week 2 - Count number of sudoku solutions

### Description

Write a program to compute the number of sudoku solutions (fill the zero elements of a given partial sudoku table)

Fill numbers from 1, 2, 3, ..., 9 to 9 x 9 table so that:

- Numbers of each row are distinct
- Numbers of each column are distinct
- Numbers on each sub-square 3 x 3 are distinct

### Input

- Each line  $i$  ( $i = 1, 2, \dots, 9$ ) contains elements of the  $i^{\text{th}}$  row of the Sudoku table: elements are numbers from 0 to 9 (value 0 means the empty cell of the table)

### Output

- Write the number of solutions found

### Example

#### Input

0 0 3 4 0 0 0 8 9

0 0 6 7 8 9 0 2 3

0 8 0 0 2 3 4 5 6

0 0 4 0 6 5 0 9 7

0 6 0 0 9 0 0 1 4

0 0 7 2 0 4 3 6 5

0 3 0 6 0 2 0 7 8

0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0

### Output

64

## Sample TestCase

C 17



1 Write your Source code here

## Source code

C 17



```
1 //C
2 #include <stdio.h>
3
4 int main()
5 {
6
7 }
```

[SUBMIT CODE](#)

Currently, this contest problem is not open for submissions

Or

HUSTack

C 17

Select file

SUBMIT

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