michael_wu — ◑ ⬏

CSES Problem Set

Chessboard and Queens

TASK │ SUBMIT │ RESULTS │ STATISTICS │ TESTS

Time limit: 1.00 s   **Memory limit:** 512 MB

Your task is to place eight queens on a chessboard so that no two queens are attacking each other. As an additional challenge, each square is either free or reserved, and you can only place queens on the free squares. However, the reserved squares do not prevent queens from attacking each other.

How many possible ways are there to place the queens?

Input

The input has eight lines, and each of them has eight characters. Each square is either free (.) or reserved (*).

Output

Print one integer: the number of ways you can place the queens.

Example

Input:
```
........
........
..*.....
........
........
.....**.
...*....
........
```

Output:
```
65
```

Introductory Problems

...

Tower of Hanoi	-
Creating Strings	-
Apple Division	✓
Chessboard and Queens	-
Raab Game I	-
Mex Grid Construction	-
Knight Moves Grid	-
Grid Coloring I	-

...

Your submissions