# Ten Knights

In the game of chess, a knight moves in a characteristic L-shaped jump, one square in one direction and two squares in the other direction. You are working on a puzzle in which the player is asked to place ten or more knights on a  $5 \times 5$  chessboard so that no two knights attack each other. Your goal is to evaluate a solution. A solution with less than ten knights is invalid; with ten it is valid; eleven is considered excellent; more than eleven is incredible.

### Input

The input consists of file lines of five characters each. The characters are either "k", which indicates the placement of a knight, or "." (period) indicating an empty space on the board.

## Output

A single line containing the outcome: invalid, valid, excellent, or incredible.

### Examples

Sample input 1	Sample output 1
kk.	valid
kk. kk.	
kk.	
kk.	
Sample input 2	Sample output 2
kk	invalid
kk.	
k.k kk.	
kk	
Sample input 3	Sample output 3
kk	invalid
.k.k.	
k k.k.	
kk	
11 11	

# Limits

Time limit is 1 second.

Memory limit is 256 megabytes.