

Exam Bomb

Jojo is facing the hardest problem in his life. He is looking at a grid with size $N \times N$. Each cell can be either empty or filled with bomb. Character '.' indicates an empty cell. Characters '/'(right diagonal), '-'(horizontal), '|' (vertical), and '\'(left diagonal) indicate a bomb. When exploded the bomb will destroy all the cells depending on it's direction. The destruction will be indicated by a character '@'.

Given the starting grid help Jojo determine the final stage after all the bomb exploded at the same time.

Format Input

A line consist of an integer N the size of the grid. Next N lines consist of N characters indicating each cells inside the grid.

Format Output

The final form of the grid.

Constraints

$1 \leq N \leq 20$

Sample Input 1	Sample Output 1
3/.@ .@. @..

Sample Input 2	Sample Output 2
3-. @@@ ...

Sample Input 3	Sample Output 3
3@ .@. .@.

Sample Input 4	Sample Output 4
3\. ...	@.. .@. ..@

Sample Input 5	Sample Output 5
3 \./ . . .-.	@@@ .@. @@@