

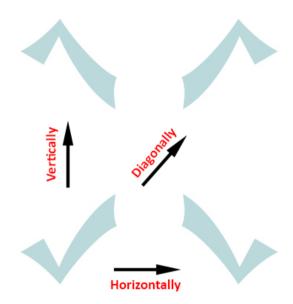
HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

D. Sharapova And Flipping

time limit per test: 2 seconds memory limit per test: 64 megabytes input: standard input output: standard output

One day, Sharapova was wandering in her town. When she was walking beside a tree, she found a paper with a picture painted on it. There was a question written on the back. The question was "Can you repaint this picture after flipping it Horizontally, Vertically or Diagonally?".



Sharapova isn't good at painting. So she asked you to help him.

Given the picture as an N*M grid of characters '*' and '.' only and the direction of flipping. Can you repaint it after flipping?.

Input

The first line contains two integers N, M ($1 < N, M < 10^3$).

The second line contains a word representing the direction of flipping ("Horizontally", "Vertically" or "Diagonally").

The next N lines, each contains M characters. Characters consists of characters '*' and '.' only.

Output

Print N lines, each contains M characters representing the grid after flipping.

Examples

Examples		
input	Сору	
6 7 Horizontally		
·····* ···* ···* ···*		
·*·····		
output	Сору	
· · · · · · · · · · · · · · · · · · ·		

input	Сору
6 7	
Vertically	
*.	
*	
. *	
output	Сору
*	
.*.*	
*	
*.	
•••••	

input	Сору
6 7	
Diagonally	

*.	
.*.*	
*	
•••••	
output	Сору
*	
*.	
.*	
•••••	

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- ICPC Assiut Advanced Newcomers 2023 Contest 5
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- ICPC Assiut Advanced Newcomers 2023 Contest 3
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- ICPC Assiut Advanced Newcomers 2023 Contest 2
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- 2023 Onsite Contest 1

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Finished

Practice



→ Virtual participation

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Start virtual contest

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Language: GNU G++20 11.2.0 (64 bit, w ✔

Choose file: No file chosen

Submit

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Submission	Time	Verdict	
216207364	Jul/29/2023 13:23	Accepted	