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The Virtual Learning Environment for Computer Programming

Word search

Write a program that solves word searches! Words can be written horizontally (from left to right), vertically (from top to bottom) diagonally (from left to right and from top to bottom).

Input

Input consists in different test data. Each test data contains three parts: the first part contains three natural numbers x, m and n not null. The second part is a sequence of x words. The third part is a matrix with m rows and n columns that represents the word search. Every symbol that appears in the words and in the word search are lowercase letters a, ..., z.

Output

For each test data print the matrix of the input, changing the letters which form part of any word to uppercase letters. Separate each letter of the word search by a space; separate each test data by an empty line.

Sample input

567 mary george john peter martha remarya xyatrwq jeresqs ootdaqd hvhfhwx niandaz 5 6 8 frank george john peter martha remaryaq xyatrwfe jeresqri ootdaqao hvhfhwns niandakm

Sample output

r e M A R Y a x y A t r w q J e R e s q s 0 0 T d a q d H v H f h w x N i A N d a z r e M a r y a q x y A t r w F e

J	е	R	е	s	q	R	i
0	0	Т	d	а	q	А	0
Η	V	Н	f	h	W	Ν	S
Ν	i	А	Ν	d	а	Κ	m

Problem information

Author : Jordi Petit Translator : Carlos Molina Generation : 2024-04-30 16:17:09

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