

Problem C

Skener

Having solved the match issue, Mirko faced another challenging problem. His mom ordered him to read an article about the newest couples on the Croatian show-biz scene in the “Moja Tajna” magazine. The article is written in a very small font size which Mirko cannot read. Luckily, Mirko has a scanner in the closet which will enlarge the article for him.

The article is a matrix of characters with R rows and C columns. The characters are letters of the English alphabet, digits and the character ‘.’ (period). Mirko’s scanner supports two parameters, Z_R and Z_C . It **substitutes each character** it scans with a **matrix of Z_R rows and Z_C columns**, where all entries are equal to the scanned character.

Mirko realized his scanner’s software no longer works so he needs your help.

Input

The first row contains four integers, R , C , Z_R and Z_C . R and C are between 1 and 50, while Z_R and Z_C are between 1 and 5.

Each of the following R rows contains C characters each, representing the article from “Moja Tajna”.

Output

The output should be a matrix of characters with $R \cdot Z_R$ rows and $C \cdot Z_C$ columns, the enlarged article.

Sample Input 1

```
3 3 1 2
.x.
x.x
.x.
```



Sample Output 1

```
..xx..
xx..xx
..xx..
```



Sample Input 2

Sample Output 2

3 3 2 1

.x.

x.x

.x.



.x.

.x.

x.x

x.x

.x.

.x.



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MEMORY LIMIT
1024 MB



CPU TIME LIMIT
1 second



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Competition in
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