

Matrix Script ★

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Neo has a complex matrix script. The matrix script is a $N \times M$ grid of strings. It consists of alphanumeric characters, spaces and symbols (!,@,#,\$,%,&).

Matrix Script



Matrix Decoded

This\$#is% Matrix# %!

To decode the script, Neo needs to read each column and select only the alphanumeric characters and connect them. Neo reads the column from top to bottom and starts reading from the leftmost column.

If there are symbols or spaces between two alphanumeric characters of the decoded script, then Neo replaces them with a single space ' ' for better readability.

Neo feels that there is no need to use 'i f' conditions for decoding.

Alphanumeric characters consist of: [A-Z, a-z, and 0-9].

Input Format

The first line contains space-separated integers N (rows) and M (columns) respectively.

The next N lines contain the row elements of the matrix script.

Constraints

$0 < N, M < 100$

Note: A 0 score will be awarded for using 'i f' conditions in your code.

Output Format

Print the decoded matrix script.

Sample Input 0

7 3
Tsi
h%x
i #
sM
\$a
#t%
ir!

Sample Output 0

This is Matrix# %!

Explanation 0

The decoded script is:

This\$#is% Matrix# %!

Neo replaces the symbols or spaces between two alphanumeric characters with a single space ' ' for better readability.
So, the final decoded script is:

This is Matrix# %!

Change Theme Language Python 3

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9
10 first_multiple_input = input().rstrip().split()
11
12 n = int(first_multiple_input[0])
13
14 m = int(first_multiple_input[1])
15
16 matrix = []
17
18 for _ in range(n):
19     matrix_item = input()
20     matrix.append(matrix_item)
21
22 encoded_string = "".join([matrix[j][i] for i in range(m) for j in range(n)])
23 pat = r'(?<=[a-zA-Z0-9])[^a-zA-Z0-9]+(?=[a-zA-Z0-9])'
24 print(re.sub(pat,' ',encoded_string))
```

Line: 24 Col: 38

Upload Code as File ☐ Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✔ Sample Test case 0

Download

Input (stdin)

1	7 3
2	Tsi
3	h%x
4	i #
5	sM
6	\$a
7	#t%
8	ir!

Your Output (stdout)

1	This is Matrix# %!
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