Matrix Script

94/115 challenges solved

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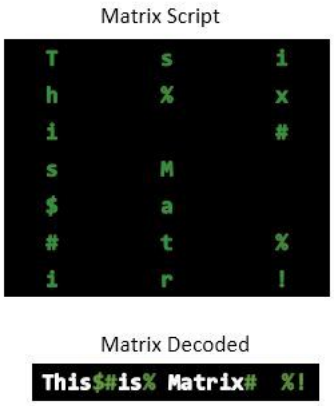
Neo has a complex matrix script. The matrix script is a N X M grid of strings. It consists of alphanumeric characters, spaces and symbols (!,@,#,$,%,&).



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 '`if`' 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 '`if`' 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

```python
#!/bin/python3

import math
import os
import random
import re
import sys




first_multiple_input = input().rstrip().split()

n = int(first_multiple_input[0])

m = int(first_multiple_input[1])

matrix = []

for _ in range(n):
    matrix_item = input()
    matrix.append(matrix_item)


# Read columns top to bottom, left to right
decoded = ''.join([matrix[j][i] for i in range(m) for j in range(n)])

# Replace symbols/spaces between alphanumeric characters with single space
final = re.sub(r'(?<=\w)([^\w]+)(?=\w)', ' ', decoded)

print(final)

```

EMACS Line: 32 Col: 1

Upload Code as File | Test against custom input | Run Code | Submit Code

You have earned 100.00 points!

94/115 challenges solved.

82%

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5
- Test case 6

Compiler Message

Success

Input (stdin) Download

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