

I M05 - Minimize Waste Cells

Problem

Submissions

Previously, it was important for every company to have a motto.

Now, it is important for every company to have a banner.

Since companies want to save their resources, they decided to convert their motto into a banner.

How this works is, you create a square matrix of size $N \times N$, and fill in the elements of this matrix using the motto in row-major order.

The remaining spaces in the matrix are called waste cells and are to be represented as '?'.
You have to choose N in such a way that the number of waste cells is minimized.

Input

Input consists of one line containing the company motto

Solved: 716
Attempted: 722

Output

Output must consist of the matrix formed from the input string

Notes

The length of the input string will not exceed 1000

Sample Input 0

```
nike - just do it!
```

Sample Output 0

```
nike
- jus
t do
it!??
?????
```

Sample Input 1

```
oneplus - never settle!
```

Sample Output 1

```
onepl
us -
never
sett
le!??
```



Contest ends in 1 day 6 hours 4 minutes 34 seconds



Submissions: 583

Max Score: 50

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Current Buffer (saved locally, editable)  

Python 3



```
1 import math
2 sentence = input()
3 req = math.ceil((len(sentence) ** 0.5))
4 for i in range(0, req**2):
5     if i < len(sentence):
6         print(sentence[i], end = '')
7     else:
8         print('?', end = '')
9
10 if (i + 1) % req == 0:
11     print()
12
```

Line: 12 Col: 1

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☐ Test against custom input

Run Code

Submit Code