

6. Zigzag Conversion



Medium 5.7K 11.7K

Companies

The string "PAYPALISHIRING" is written in a zigzag pattern on a given number of rows like this: (you may want to display this pattern in a fixed font for better legibility)

```
P A H N
A P L S I I G
Y I R
```

And then read line by line: "PAHNAPLSIIGYIR"

Write the code that will take a string and make this conversion given a number of rows:

```
string convert(string s, int numRows);
```

Example 1:

**Input:** s = "PAYPALISHIRING", numRows = 3  
**Output:** "PAHNAPLSIIGYIR"

Example 2:

**Input:** s = "PAYPALISHIRING", numRows = 4  
**Output:** "PINALSIGYAHRPI"  
**Explanation:**  
P I N  
A L S I G  
Y A H R  
P I

Example 3:

**Input:** s = "A", numRows = 1  
**Output:** "A"

Constraints:

- 1 <= s.length <= 1000
- s consists of English letters (lower-case and upper-case), ' ', and '.'.
- 1 <= numRows <= 1000

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Yes No

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