LEETCODE SOLUTIONS - YOGESH MUNEES

6. Zigzag Conversion

Medium ✓ 👍 6.5K 👎 12.8K ☆ ↻

🔒 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"
```

Solution:

```python
class Solution:
    def convert(self, s: str, numRows: int) -> str:
        #first row = (n-1)+(n-2)
        finStr = ""
        if numRows == 1 or len(s) == 1:
            return s
        if numRows == 2:
            print(s[::2],s[1::2])
            finStr += s[::2]
            finStr += s[1::2]
            return finStr
        indList = [num for num in range(len(s))]
        dupe = indList[:]
        skip = (numRows-1)+(numRows-2)+1
        for i in range(skip-1):
            for x in indList:
                if x%skip==i or x%skip==skip-i:
```

```python
            dupe.remove(x)
            finStr += s[x]
        indList = dupe[:]
    return finStr
```