

Description

Solution

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Submissions

6. ZigZag Conversion

Medium

1686

4639

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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
```

JavaAutocomplete

```
2 public String convert(String input, int numRows) {
3     int column = 0, row = 0, rowNumber = numRows;
4     String output = "";
5     String[][] arrProcess = new String[rowNumber]
6     [input.length() + 1];
7     for (int i = 1; i <= input.length(); i++) {
8         arrProcess[row][column] = input.charAt(i - 1) + "";
9
10        if (row + 1 == rowNumber) {
11            for (int j = 1; j <= rowNumber - 2 && i + 1 <=
12            input.length(); j++) {
13                i++;
14                row--;
15                column++;
16                arrProcess[row][column] = input.charAt(i - 1) +
17                "";
18            }
19            row = -1;
20            column++;
21        }
22        row++;
23    }
24 }
```

TestcaseRun Code ResultDebugger

AcceptedRuntime: 5 ms

Your input"PAYPALISHIRING"3

Output"PAHNAPLSIIGYIR"Diff

Expected"PAHNAPLSIIGYIR"