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