Zi	7 2 -0,9	Couvers	ion

For slowing the Zigzog Eawersión problem, the goal is to simulate resiting characters in a zigzog pottern and then reading them row by row,

These Idea; I timulate the zigzeg by filling characters into 1900s going down and then up diagonally repeatedly

Use: A vector < strings to storic characters for each 19w. A 19w index and a direction flag to determine movement between 19ws

[Algorithm: 1. If num Rows = = 1 - seturn s directly (rig tag in traded)

1. Initialize a vector of empty string: vector string, sous (num Rows)

3. We sow =0, and direction =-1

4 Loop though characters in s.

Append to AGIOI (19W)

If a top & bottom 1900, severse clinetism More 1900 += direction

5. After loop, concatenate all strings in sour

Trine Complexity. [O (n) where n = s. length () - each character in movemed once
- O(n) page for storing rows.

[Example: 1 "PAY PALISHIRING", nums Rows = 4

Rowo: P 1 N Row1: A LS 1G

ROWZ: YA HR

Concatenate: "PINALSIGYAHRPI"