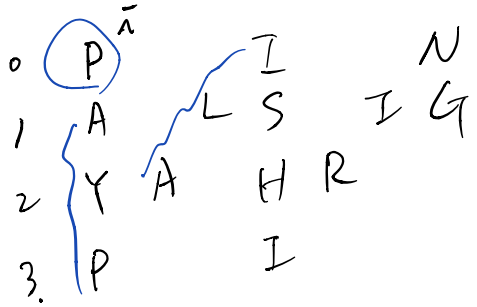
PAYPALISHIRING. n=4.



0	P		I			N
1	A	L	S		I	G
2	Y	A	H	R		
3.	P		I			

map = {} map[row].push(s[i])

while(i<n) {

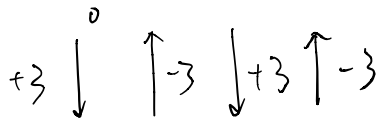
3 → +1 row

3 → -1

}

row 0 → n-1

+3 ↓ 0 ↑ -3 ↓ +3 ↑ -3



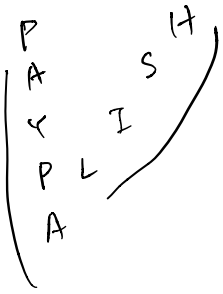
```
const fn = (s, n) => {
    const rows = {};
    for(let i=0; i<n; i++) {
        rows[i] = [];
    }
    rows[0].push(s[0]);
    let i = 0;
    let r = 0;
    while(i < n) {
        for(let j=0; j<3; j++) {
```

if (n<=1) return s;

s.length.

n-1

```
        i++;
        r++;
        rows[r].push(s[i]);
      }
    }
    for(let j=0; j<n-1; j++) {
      i++;
      r--;
      rows[r].push(s[i]);
    }
  }
  return Object.values(rows)
    .map(strs => strs.join(''))
    .join('');
};
```

{0: [P.I.N]
1: [A L S I G]}
i

$n = 5$