**[ZigZag Conversion](https://leetcode.com/problems/zigzag-conversion/)**

**public** **class** ZigZagConversion {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

System.***out***.println(*convert*("PAYPALISHIRING", 3));

}

**public** **static** String convert(String s, **int** numRows) {

**if**(s == **null** || s.length() == 0 || numRows == 1) {

**return** s;

}

StringBuilder[] str = **new** StringBuilder[numRows];

**for**(**int** i = 0 ; i < numRows ; i++) {

str[i] = **new** StringBuilder();

}

**int** index = 0;

**int** inc = 0;

**int** i = 0;

**while**(i < s.length()) {

str[index].append(s.charAt(i));

**if**(index == 0) {

inc = 1;

}

**else** **if**(index == numRows - 1) {

inc = -1;

}

index += inc;

i++;

}

String result = "";

**for**(**int** j = 0 ; j < str.length ; j++) {

result += str[j];

}

**return** result;

}

}

Time complexity : O(n) ,n is length of given string

Space Complexity : O(n) , n is length of given string