package day5;

import java.util.Scanner;

public class Zigzag\_Conversion {

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

if (numRows == 1)

System.out.println(s);

StringBuilder sb = new StringBuilder();

// step

int step = 2 \* numRows - 2;

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

//first & last rows

if (i == 0 || i == numRows - 1) {

for (int j = i; j < s.length(); j = j + step) {

sb.append(s.charAt(j));

}

//middle rows

} else {

int j = i;

boolean flag = true;

int step1 = 2 \* (numRows - 1 - i);

int step2 = step - step1;

while (j < s.length()) {

sb.append(s.charAt(j));

if (flag)

j = j + step1;

else

j = j + step2;

flag = !flag;

}

}

}

System.out.println(sb.toString());

return sb.toString();

}

public static void main(String [] args){

Scanner sc = new Scanner(System.in);

System.out.println("Enter the String");

String h = sc.nextLine();

System.out.println("Enter the row");

int r = sc.nextInt();

convert(h,r);

}