public class ReverseString {

public static String reverseString(String s) {

if (s == null || s.length() <= 1) {

return s; // No need to reverse if string is null or has 0 or 1 character

}

char[] charArray = s.toCharArray(); // Convert string to char array

int left = 0; // Pointer to the beginning of the array

int right = s.length() - 1; // Pointer to the end of the array

while (left < right) {

// Swap characters at left and right pointers

char temp = charArray[left];

charArray[left] = charArray[right];

charArray[right] = temp;

// Move pointers towards the center

left++;

right--;

}

return new String(charArray); // Convert char array back to string and return

}

public static void main(String[] args) {

String str = "Hello, World!";

String reversed = reverseString(str);

System.out.println("Original: " + str);

System.out.println("Reversed: " + reversed);

}

}