**Problem #344. Reverse String**

<https://leetcode.com/problems/reverse-string/description/>

Write a function that reverses a string. The input string is given as an array of characters s.

You must do this by modifying the input array [in-place](https://en.wikipedia.org/wiki/In-place_algorithm) with O(1) extra memory.

**Example 1:**

**Input:** s = ["h","e","l","l","o"]

**Output:** ["o","l","l","e","h"]

**Example 2:**

**Input:** s = ["H","a","n","n","a","h"]

**Output:** ["h","a","n","n","a","H"]

**Constraints:**

* 1 <= s.length <= 105
* s[i] is a [printable ascii character](https://en.wikipedia.org/wiki/ASCII#Printable_characters).

My Solution:

1. Traverse through half the list and exchange the elements from the ends while advancing towards the middle from both directions.

class Solution:

def reverseString(self, s: List[str]) -> None:

"""

Do not return anything, modify s in-place instead.

"""

for i in range(len(s)//2):

s[i], s[len(s) - i - 1] = s[len(s) - i - 1], s[i]