344. Reverse String: TP: 5-["",",",",",",",","] de: ['o",'1",'2",""). & leverse the array in -place & modely the original array is use o(1) estra memory -> can't create a new array. \* Return nothing (just modify 8). Brute force: 1. copy the array into a new array 2. Reverse the new array 3. copy back to original & problem: use extra memory, not allowed. Efficient approach (two-pointer) \* left -> start of array Jeneux co o store so right - end of array + swap s[left] and s[right] & Move left singhtward and eight leftward \* stop when left > = night. Class Solution {

Public void reverseString (char[] 5){ ind left = 0; int right = s. length -1; while (left = right) & char temp = s[left]; s[left] = s[alight];

S[sight] = temp;

left++;

sight--;

}

Day Run:

$$S = ["h, 'e', 'l', "l', 'o']$$

left=0 right \( 4

step 1: sweep 'S[o] and S[4] \right= 2

step 2: sweep S[i] and S[3] \right= 2

step 2: sweep S[i] and S[3] \right= 2

step (left >= right)

Result = ['o', 'l', 'l', 'l', 'l'].

Time \right= 0(u) space \right= 0(1)