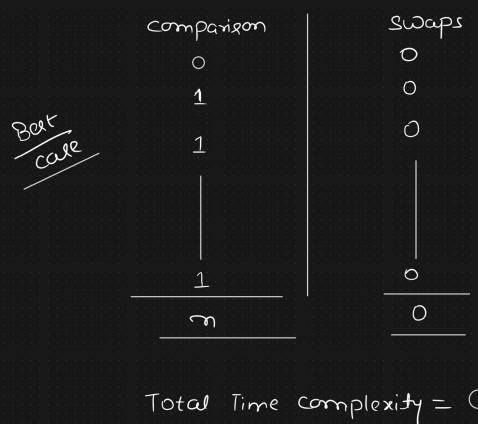
$$i = 3$$
 0
 1
 2
 40
 3
 3
 3
 50
 $1 = 3 \neq 0$
 $1 =$



Total Time complexity = O(n)

Descendin 50,40,30,20,10 Order 50 50, US 2640 50 30 46, 80, 36 40 30, 40, 80, 80, 80

of Comparison elements
$$0$$
 1
 2
 3
 4
 3
 4
 $m-1$
 $(n-1)m$

$$\frac{(\omega - 1)}{2} = 0$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{3}{(\omega-1)\omega} = \frac{3}{(\omega-1)\omega} = \frac{2}{\omega_2-\kappa}$$

Total Time complexity = $O(n^2)$

Linear Time Complexity

O(m)

Array is mot at all sorted/genwinely sorting

OuickSort/MergeSort

Space Complexity - O(1)

Stable Algorithm - Yel

Inplace Algorithm