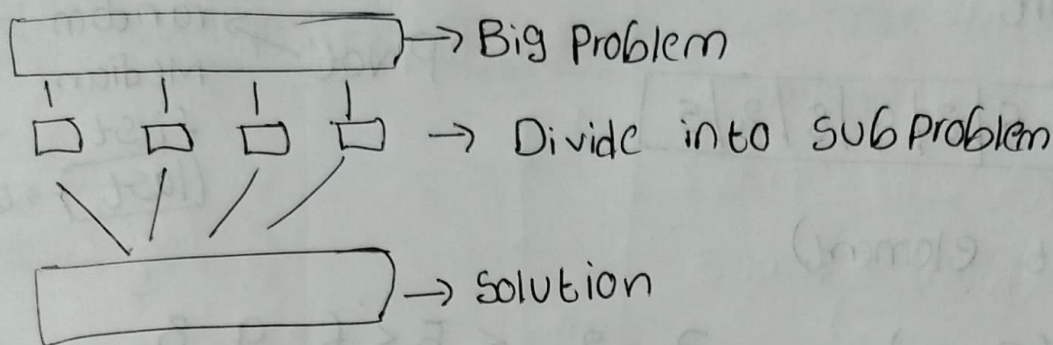


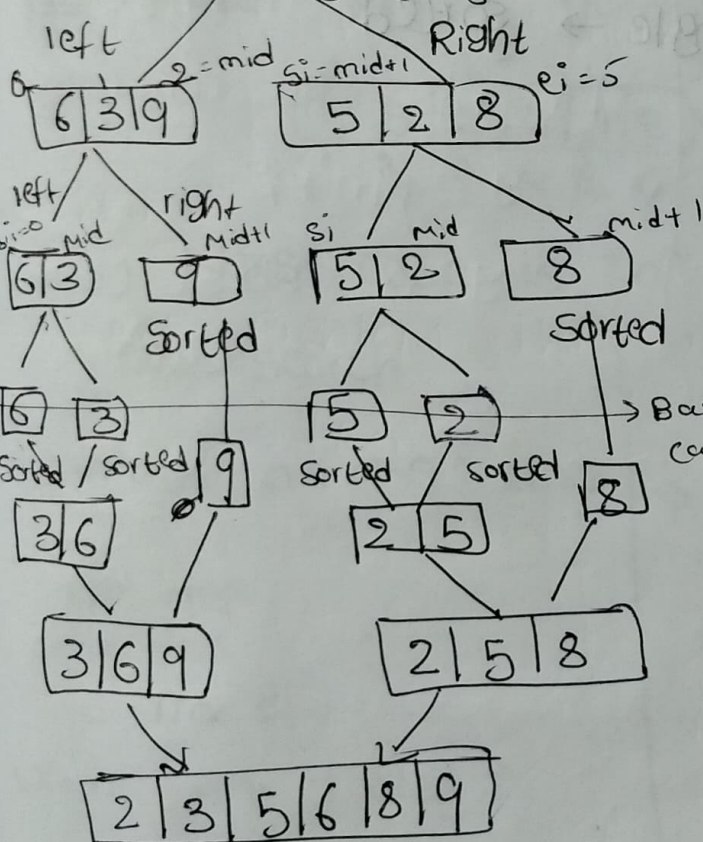
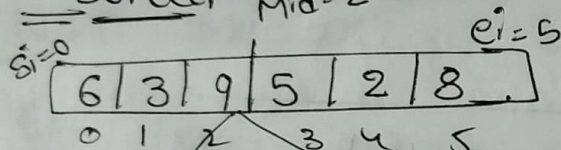
# Divide & Conquer



## Merge Sort

Unsorted

Mid = 2



## APProach

① Divide  
→ Mid

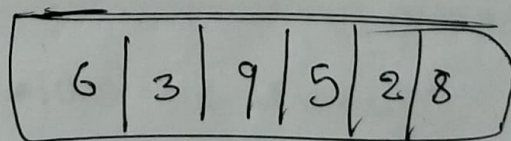
$$st = 0, \text{ end} = n - 1$$

$$mid = (st + \text{end}) / 2 \text{ (or)}$$

$$si + (\text{end} - st) / 2$$

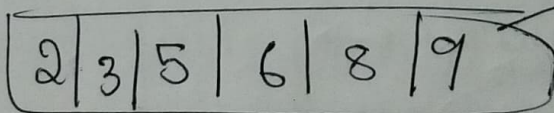
② Merge sort (left)  
Merge sort (right)

③ Merge



(3, 6, 9) (2, 5, 8)

left + right  
temp (size)



(3, 6, 9) ✓

(2, 5, 8) ✓

↑

