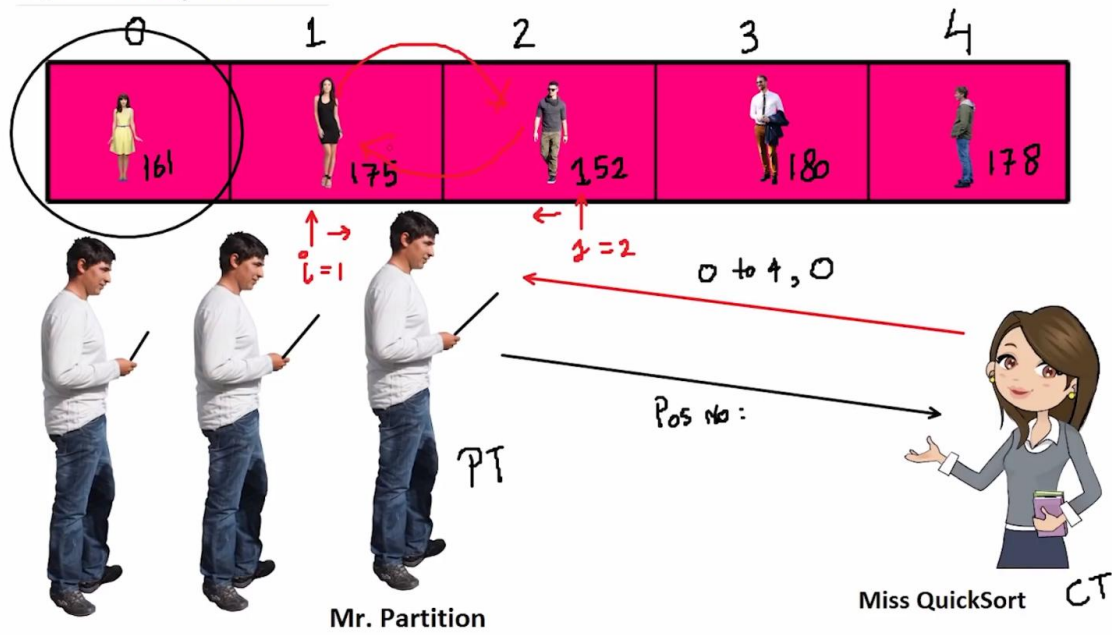
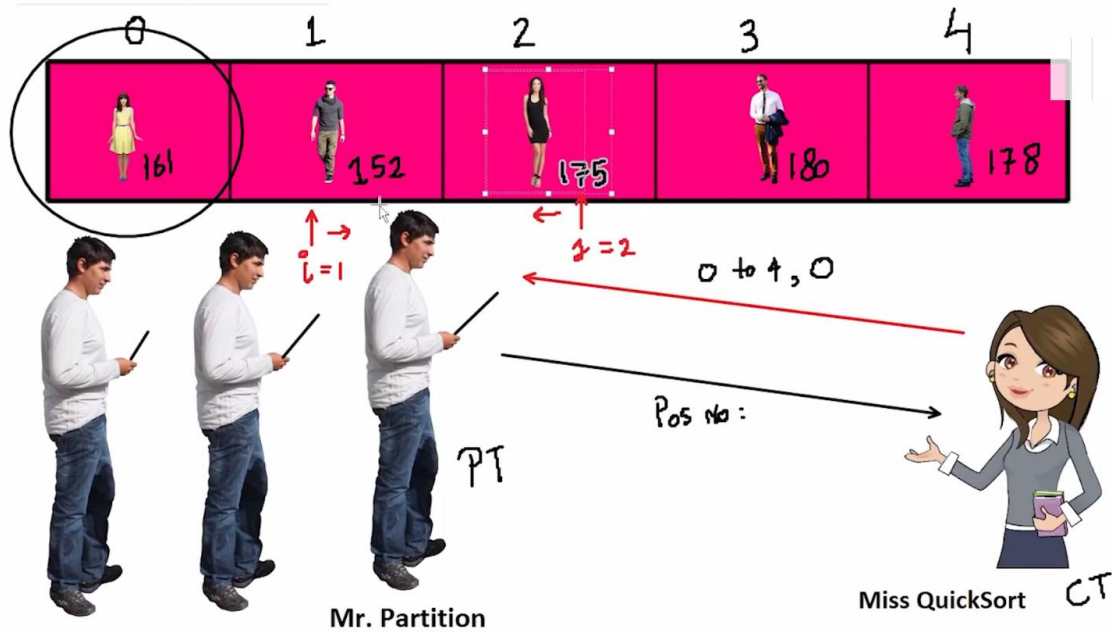


QuickSort Explained!

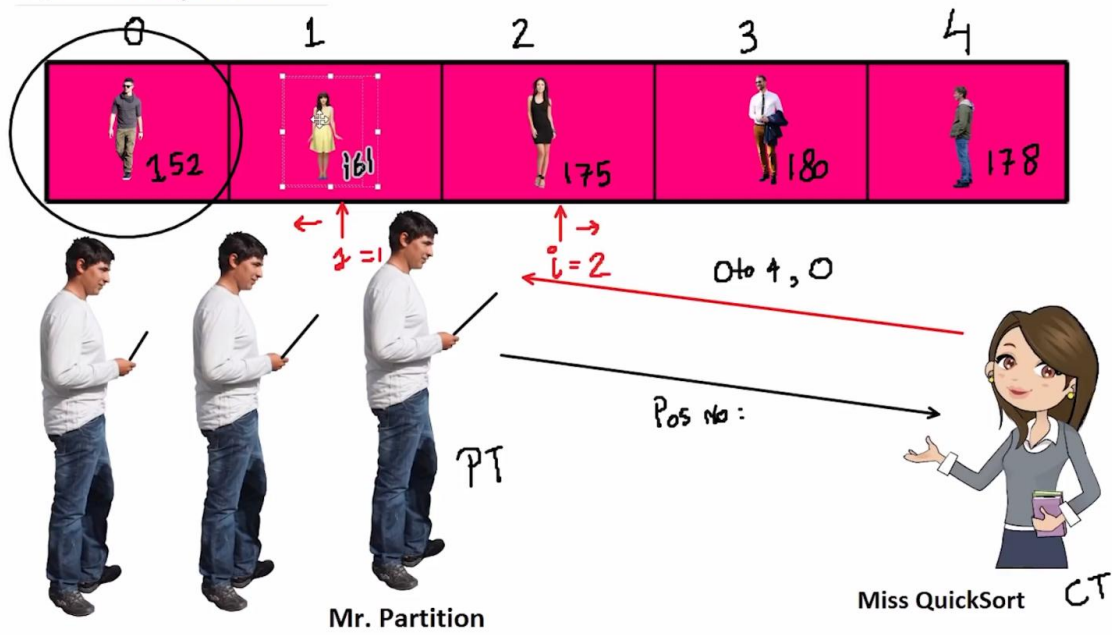


QuickSort Explained!

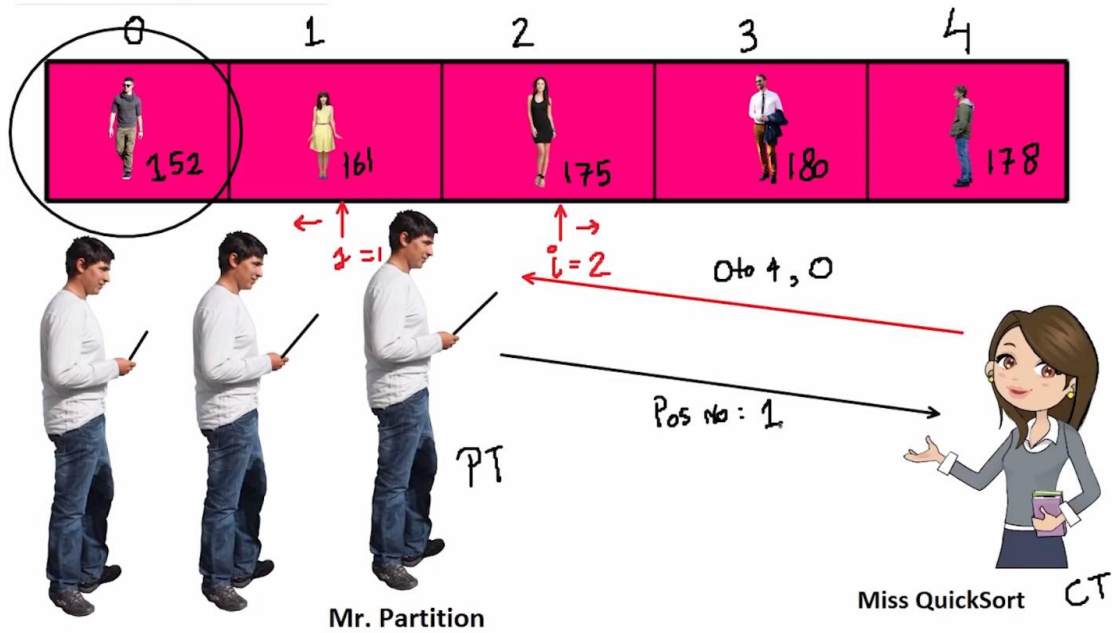


keep doing this until I
and j cross each other and after crossing each other replace j with original

QuickSort Explained!



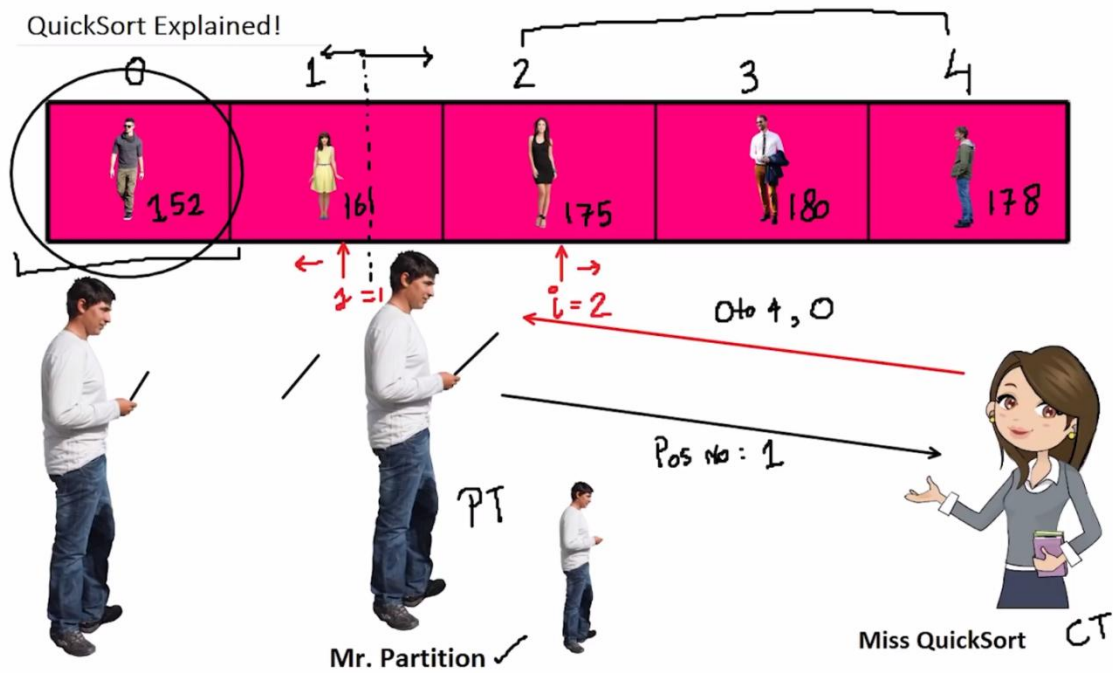
QuickSort Explained!



whole process is known

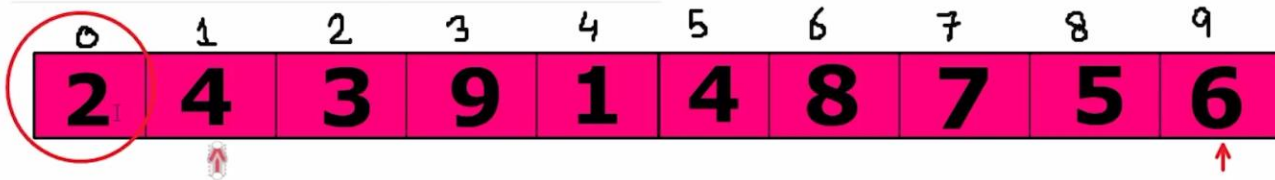
as partition

QuickSort Explained!



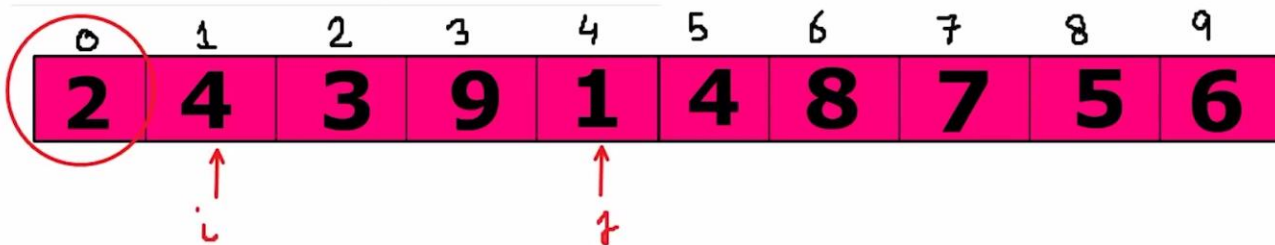
QuickSort Explained!

Length = 10



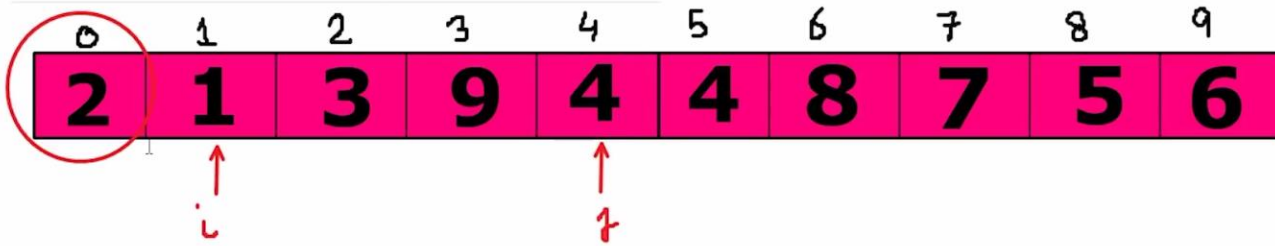
QuickSort Explained!

Length = 10



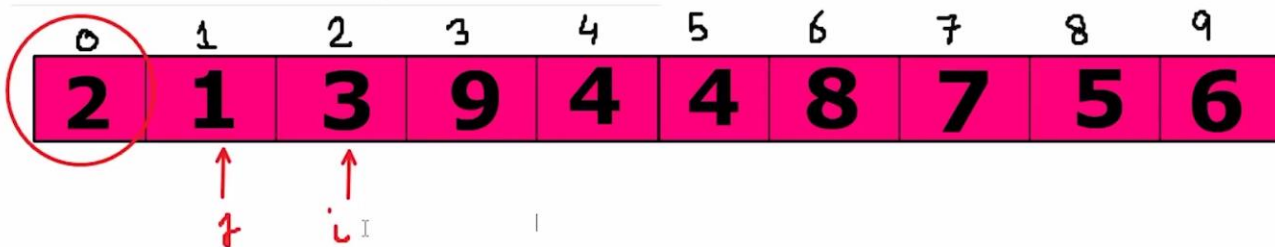
QuickSort Explained!

Length = 10



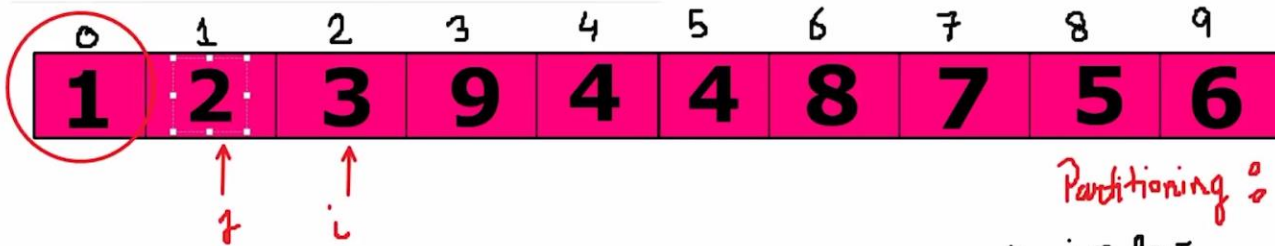
QuickSort Explained!

Length = 10



QuickSort Explained!

Length = 10

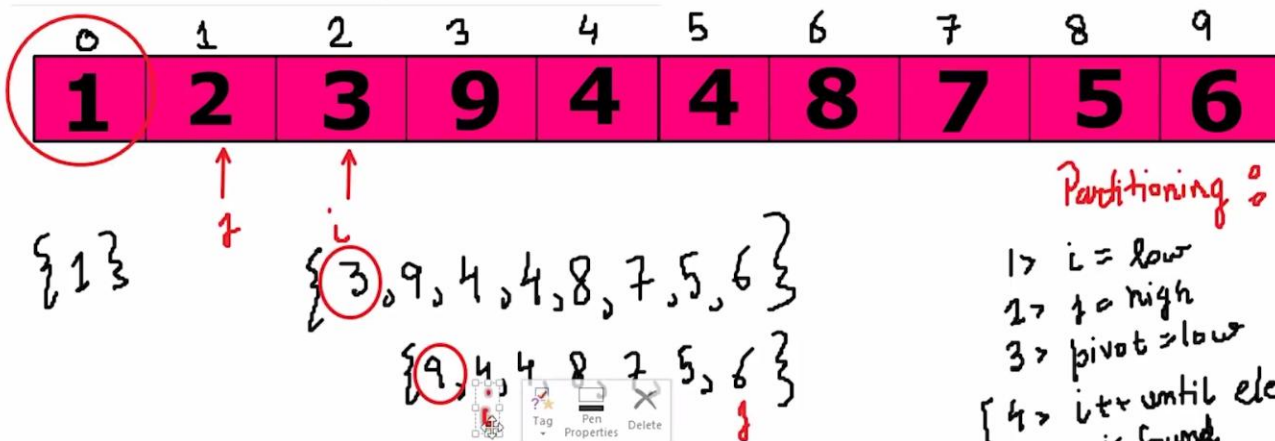


Partitioning %

- 1> $i = \text{low}$
- 2> $j = \text{high}$
- 3> $\text{pivot} = \text{low}$
- 4> $i++$ until element $>$ pivot is found
- 5> $j--$ until element \leq pivot is found
- 6> Swap $A[i]$ & $A[j]$ and repeat 4 & 5 until $j < i$
- 7> Swap pivot & $A[j]$

QuickSort Explained!

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QuickSort Explained!

Length = 10

0	1	2	3	4	5	6	7	8	9
1	2	3	9	4	4	8	7	5	6

{1}

↑
2

{3, 9, 4, 4, 8, 7, 5, 6}

{9, 4, 4, 8, 7, 5, 6}

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{9, 4, 4, 8, 7, 5, 6}

{6, 4, 4, 8, 7, 5, 9}

{6, 4, 4, 8, 7, 5}

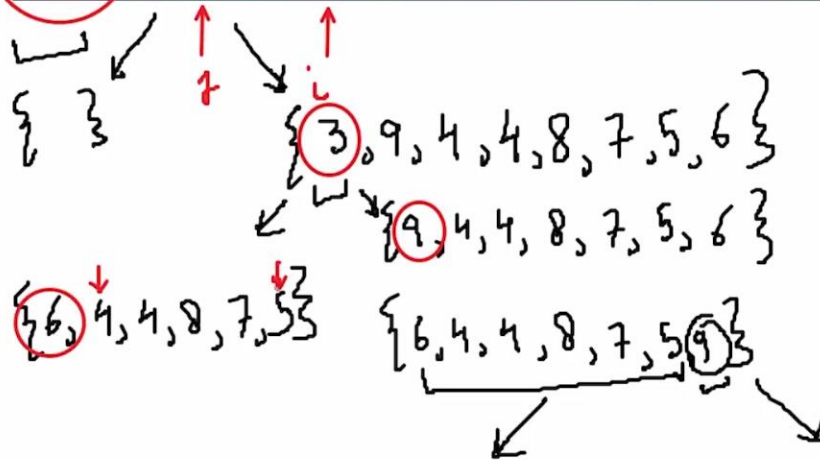
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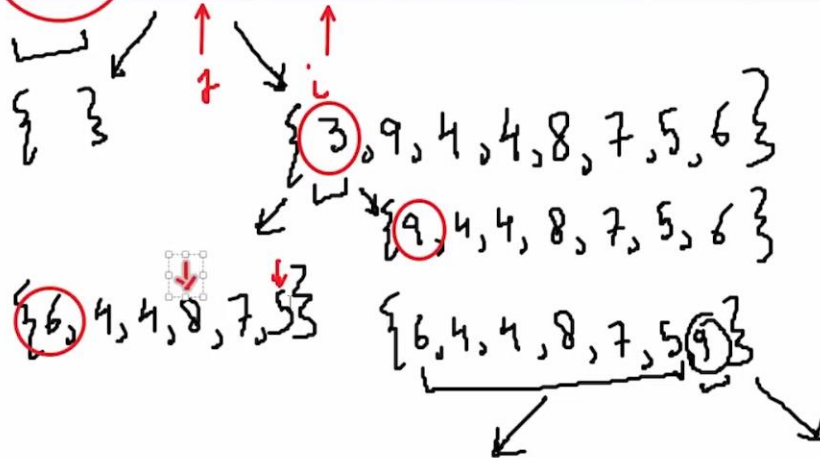
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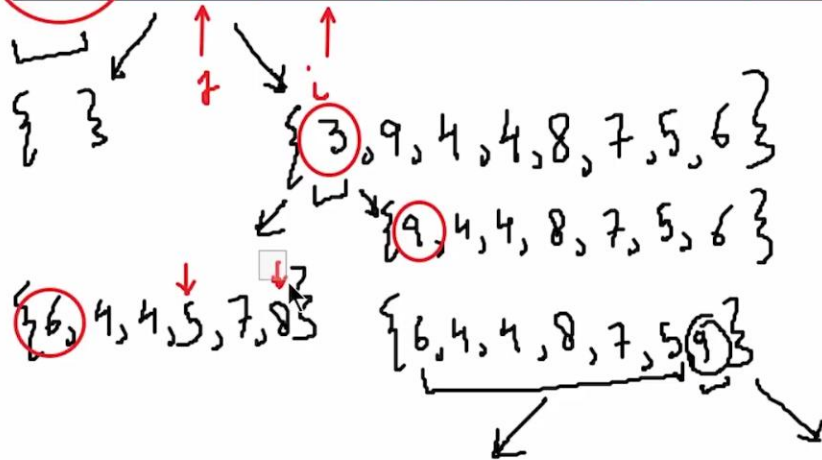
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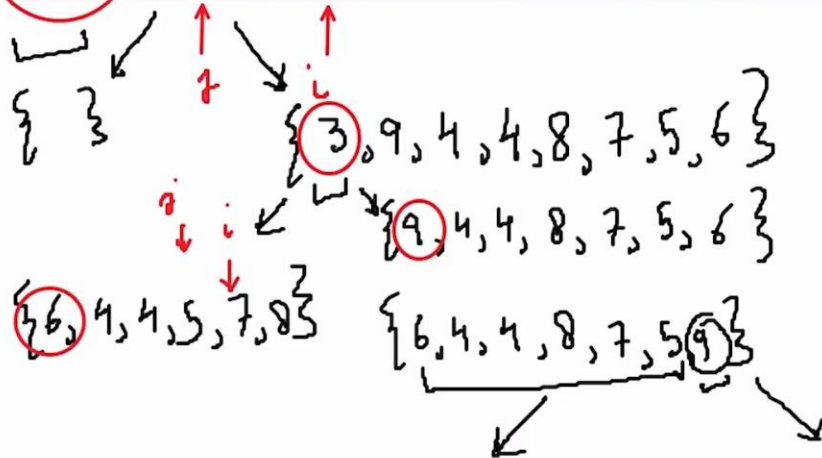
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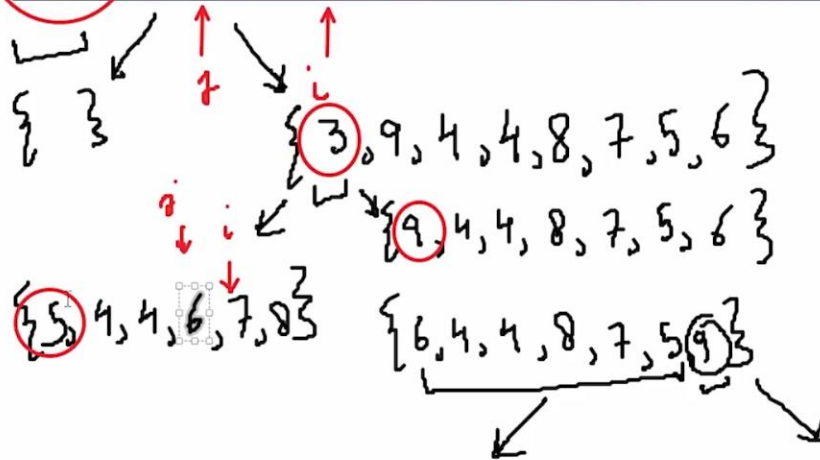
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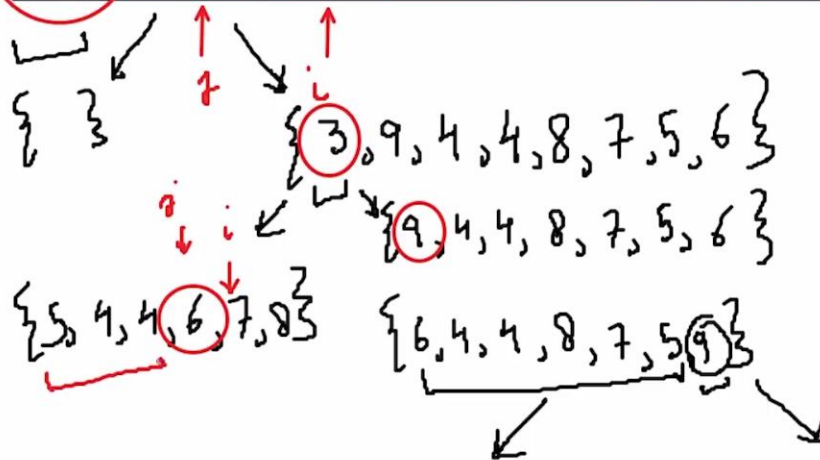
Partitioning %

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is found
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is found
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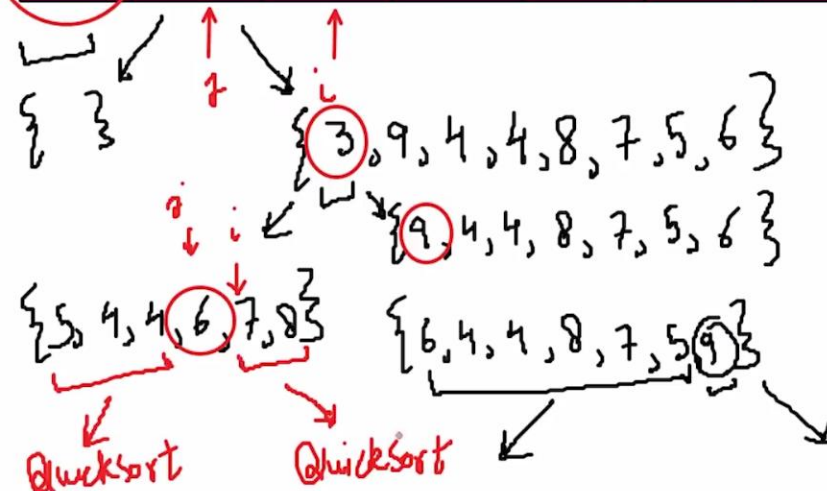
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