

Merge sort

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

left mid right

Left subarray : left to mid

Right Subarray : mid + 1 to Right

[0]	[1]	[2]	[3]	[4]
6	3	9	1	7

left mid right

[5]	[6]	[7]	[8]
2	8	4	5

Left mid right

[0]	[1]	[2]
6	3	9

Left mid right

[3]	[4]
1	7

Left right mid

[5]	[6]
2	8

Left right mid

[7]	[8]
4	5

Left right mid

[0]	[1]
6	3

Left right mid

[2]
9

Left right

[3]
1

Left right

[4]
7

Left right

[5]
2

Left right

[6]
8

Left right

[7]
4

Left right

[8]
5

Left right

[0]
6

Left right

[1]
3

Left right

Merge all the Small size Subarrays in ascending order

[0]	[1]
3	6

[0]	[1]
1	9

[0]	[1]
2	7

[0]	[1]
4	8

[0]
5

[0]	[1]	[2]	[3]
1	3	6	9

[0]	[1]	[2]	[3]
2	4	7	8

[0]
5

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

[0]
5

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