

Bubble Sort

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Arr[6]

Compare 2 consecutive elements,
If 1st element is bigger than the 2nd
element, then swap. Else compare the
next 2 consecutive elements

[0]	[1]	[2]	[3]	[4]	[5]
30	20	60	50	10	40

30 > 20 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	60	50	10	40

30 > 60 ? no

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	60	50	10	40

60 > 50 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	60	10	40

60 > 10 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	10	60	40

60 > 40 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	10	40	60

Iteration 2:

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	10	40	60

20 > 30 ? no

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	10	40	60

30 > 50 ? no

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	50	10	40	60

50 > 10 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	10	50	40	60

50 > 40 ? Yes -> swap

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	10	40	50	60

Iteration 3:

[0]	[1]	[2]	[3]	[4]	[5]
20	30	10	40	50	60

20 > 30 ? no

pos Pos+1

[0]	[1]	[2]	[3]	[4]	[5]
20	30	10	40	50	60

pos

Pos+1

30 > 10 ? Yes -> swap

[0]	[1]	[2]	[3]	[4]	[5]
20	10	30	40	50	60

pos

Pos+1

30 > 40 ? no

[0]	[1]	[2]	[3]	[4]	[5]
20	10	30	40	50	60

Iteration 4:

[0]	[1]	[2]	[3]	[4]	[5]
20	10	30	40	50	60

pos

Pos+1

20 > 10 ? Yes -> swap

[0]	[1]	[2]	[3]	[4]	[5]
10	20	30	40	50	60

pos

Pos+1

20 > 30 ? no

[0]	[1]	[2]	[3]	[4]	[5]
10	20	30	40	50	60

Iteration 5 :

[0]	[1]	[2]	[3]	[4]	[5]
10	20	30	40	50	60

pos

Pos+1

10 > 20 ? no

[0]	[1]	[2]	[3]	[4]	[5]
10	20	30	40	50	60