

Iteration 1

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

30 > 20 ? Yes
swap

Sel_pos pos

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

20 > 60 ? no

Sel_pos pos

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

20 > 50 ? no

Sel_pos pos

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

20 > 10 ? Yes
swap

Sel_pos pos

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

10 > 40 ? no

Sel_pos pos

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

Iteration 2 :

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

30 > 60 ? no

Sel_pos pos

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

30 > 50 ? no

Sel_pos pos

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

30 > 20 ? Yes
swap

Sel_pos pos

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

20 > 40 ? no

Sel_pos pos

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

Iteration 3

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

Sel_pos pos

60 > 50 ? Yes
swap

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

Sel_pos pos

Arr[sel_pos] > arr[pos]
50 > 30 ? Yes
swap

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

Sel_pos pos

30 > 40 ? no

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

Iteration 4

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

Sel_pos pos

Arr[sel_pos] > arr[pos]
60 > 50 ? Yes
swap

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

Sel_pos pos

50 > 40 ? Yes
swap

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

Iteration 5

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

Sel_pos pos

60 > 50 ? Yes
swap

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

No of iterations / passes : n - 1
= 6 - 1 = 5

No of comparisons = (n-1) + (n-2) + (n-3) 1
= 5+4+3+2+1
= 15