

Bubble sort \Rightarrow

| | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|
| cycle I] | 14 | 10 | 33 | 27 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 33 | 27 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 33 | 27 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 33 | 27 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 27 | 33 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 27 | 33 | 43 | 20 | 34 | 31 |
| | 10 | 14 | 27 | 33 | 20 | 43 | 34 | 31 |
| | 10 | 14 | 27 | 33 | 20 | 34 | 43 | 31 |
| | 10 | 14 | 27 | 33 | 20 | 34 | 43 | 31 |
| | 10 | 14 | 27 | 33 | 20 | 34 | 43 | 31 |
| cycle II] | 10 | 14 | 27 | 33 | 20 | 34 | 31 | 43 |
| | 10 | 14 | 27 | 20 | 33 | 34 | 31 | 43 |
| | 10 | 14 | 27 | 20 | 33 | 34 | 31 | 43 |
| cycle III] | 10 | 14 | 27 | 20 | 33 | 31 | 34 | 43 |
| | 10 | 14 | 20 | 27 | 33 | 31 | 34 | 43 |
| | 10 | 14 | 20 | 27 | 31 | 33 | 34 | 43 |

Steps

compare 14 and 10
 shift small number to the left
 compare shifted to the right number (14) with next neighbourhood number
 shift if right side number is smaller

complete cycle I
 repeat same process in cycle II

Insertion Sort

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 14 | 10 | 33 | 27 | 43 | 20 | 34 | 31 |
| 10 | 14 | 33 | 27 | 43 | 20 | 34 | 31 |
| 10 | 14 | 33 | 27 | 43 | 20 | 34 | 31 |
| 10 | 14 | 27 | 33 | 43 | 20 | 34 | 31 |
| 10 | 14 | 27 | 33 | 43 | 20 | 34 | 31 |
| 10 | 14 | 27 | 33 | 20 | 43 | 34 | 31 |
| 10 | 14 | 27 | 20 | 33 | 43 | 34 | 31 |
| 10 | 14 | 20 | 27 | 33 | 43 | 34 | 31 |
| 10 | 14 | 20 | 27 | 33 | 34 | 43 | 31 |
| 10 | 14 | 20 | 27 | 33 | 34 | 31 | 43 |
| 10 | 14 | 20 | 27 | 33 | 31 | 34 | 43 |
| 10 | 14 | 20 | 27 | 31 | 33 | 34 | 43 |

compare elements
in subset check if
number is smaller
than number in subset
if you find small number
shift small number
to the left

compare number
with previous number
in subset
if no small element
found then move
forward to compare