Give the steps to bubble sort the following list in ascending order:

18 7 25 34 12 29

18 7 25 34 12 29 -Compare first pair of elements

7 18 25 34 12 29 -Out of order so swap positions

7 18 25 34 12 29 -Compare second pair of elements

7 18 25 34 12 29 -Since not out of order compare next pair of elements

7 18 25 34 12 29 -Since not out of order compare next pair of elements

7 18 25 12 34 29 -Out of order so swap positions

7 18 25 12 34 29 -Compare next pair of elements

7 18 25 12 29 34 -Out of order so swap positions

7 18 25 12 29 34 -Begin at beginning again

7 18 25 12 29 34 -Since not out of order compare next pair of elements

7 18 25 12 29 34 -Since not out of order compare next pair of elements

7 18 12 25 29 34 -Out of order so swap positions

7 18 12 25 29 34 -Compare next pair of elements

7 18 12 25 29 34 -Since not out of order begin again

7 18 12 25 29 34 -Since not out of order compare next pair of elements

7 12 18 25 29 34 -Out of order so swap positions

7 12 18 25 29 34 -Compare next pair of elements

7 12 18 25 29 34 -Since not out of order begin again

7 12 18 25 29 34 -Since not out of order compare next pair of elements

7 12 18 25 29 34 -Since not out of order begin again

7 12 18 25 29 34 -Since not out of order begin again

**7 12 18 25 29 34 -Since not enough elements to compare bubble sort completed**

\*\*\*\*subsequent problems on following pages\*\*\*

Give the steps to bubble sort the following list in ascending order:

25 89 43 92 14 39 55

\*\*note: due to length, explanations not provided\*\*

25 89 43 92 14 39 55

25 89 43 92 14 39 55

25 43 89 92 14 39 55

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25 43 89 92 14 39 55

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14 25 39 43 55 89 92

**14 25 39 43 55 89 92 -Bubble sort completed**

\*\*\*\*subsequent problems on following pages\*\*\*

Give the steps to Selection Sort the following list in ascending order:

18 7 25 34 12 29

18 7 25 34 12 29 -Search for lowest value…find 7

7 18 25 34 12 29 -Switch current lowest value and value in target position

7 18 25 34 12 29 -Search for lowest value…find 12

7 12 25 34 18 29 -Switch current lowest value and value in target position

7 12 25 34 18 29 -Search for lowest value…find 18

7 12 18 34 25 29 -Switch current lowest value and value in target position

7 12 18 34 25 29 -Search for lowest value…find 25

7 12 18 25 34 29 -Switch current lowest value and value in target position

7 12 18 25 34 29 -Search for lowest value…find 29

7 12 18 25 29 34 -Switch current lowest value and value in target position

7 12 18 25 29 34 -Search for lowest value…find 34

7 12 18 25 29 34 -Switch current lowest value and value in target position

**7 12 18 25 29 34 -Selection Sort Completed**

Give the steps to Selection Sort the following list in ascending order:

25 89 43 92 14 39 55

\*\*note: due to length, explanations not provided\*\*

25 89 43 92 14 39 55

14 89 43 92 25 39 55

14 89 43 92 25 39 55

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14 25 39 43 55 89 92

14 25 39 43 55 89 92

**14 25 39 43 55 89 92 -Selection Sort Completed**