

Bubble <div>9 5 3 6</div> <div>5 9 3 6</div> <div>5 3 9 6</div> <div>5 3 6 9</div> <div>3 5 6 9</div> <div>3 5 6 9</div>	<ul style="list-style-type: none"> • worst $O(n^2)$ • best $O(n)$ • n-1 max pass • sensitive 	Exchange <div>9 5 3 6</div> <div>5 9 3 6</div> <div>3 9 5 6</div> <div>3 5 9 6</div> <div>3 5 6 9</div>	<ul style="list-style-type: none"> • $O(n^2)$ • n-1 max pass • not sensitive • swaps [i] w/ next smallest 	Selection <div>9 5 3 6</div> <div>3 5 9 6</div> <div>3 5 9 6</div> <div>3 5 6 9</div>	<ul style="list-style-type: none"> • $O(n^2)$ • n-1 max pass • not sensitive • swaps [i] w/ min value 	Insertion <div>9 5 3 6</div> <div>5 9 3 6</div> <div>3 5 9 6</div> <div>3 5 6 9</div>	<ul style="list-style-type: none"> • worst $O(n^2)$ • best $O(n)$ • n-1 max pass • sensitive • [i] selects • [j] inserts
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Shell

9 5 3 6 1 7 12 4 8 10 2 11

9 1 8 5 7 10 3 12 2 6 4 11

1 5 2 4 8 7 3 6 9 10 12 11

1 4 3 10 5 8 6 12 2 7 9 11

1 5 2 3 6 7 4 8 9 10 12 11

1 2 6 4 9 12 5 3 7 8 10 11

1 3 2 5 4 7 6 8 9 10 12 11

→ insertion sort