

random = [C, D, Y, X, A, Z, B]
sorted = [A, B, C, D, X, Y, Z]
reversed = [Z, Y, X, D, C, B, A]

Insertion Sort Random

Iteration	List
0	[C, D, Y, X, A, Z, B]
1	[C, D, Y, X, A, Z, B]
2	[C, D, Y, X, A, Z, B]
3	[C, D, X, Y, A, Z, B]
4	[A, C, D, X, Y, Z, B]
5	[A, B, C, D, X, Y, Z]

Insertion Sort Sorted

Iteration	List
0	[A, B, C, D, X, Y, Z]
1	[A, B, C, D, X, Y, Z]
2	[A, B, C, D, X, Y, Z]
3	[A, B, C, D, X, Y, Z]
4	[A, B, C, D, X, Y, Z]
5	[A, B, C, D, X, Y, Z]
6	[A, B, C, D, X, Y, Z]
7	[A, B, C, D, X, Y, Z]

Insertion Sort Reversed

Iteration	List
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0	[Z, Y, X, D, C, B, A]
1	[Y, Z, X, D, C, B, A]
2	[X, Y, Z, D, C, B, A]
3	[D, X, Y, Z, C, B, A]
4	[C, D, X, Y, Z, B, A]
5	[B, C, D, X, Y, Z, A]
6	[A, B, C, D, X, Y, Z]

Quick Sort Random

Iteration	List
0	[_C_, D, Y, X, A, Z, B]
1	[_A_, B, C, _D_, Y, X, Z]
2	[A, _B_, C, D, _Y_, X, Z]
3	[A, B, C, D, _X_, Y, _Z_]
4	[A, B, C, D, X, Y, Z]

Quick Sort Sorted

Iteration	List
0	[_A_, B, C, D, X, Y, Z]
1	[A, _B_ , C, D, X, Y, Z]
2	[A, B, _C_, D, X, Y, Z]
3	[A, B, C, _D_, X, Y, Z]
4	[A, B, C, D, _X_, Y, Z]
5	[A, B, C, D, X, _Y_, Z]

6	[A, B, C, D, X, Y, _Z_]
7	[A, B, C, D, X, Y, Z]

Quick Sort Reversed

Iteration	List
0	[_Z_, Y, X, D, C, B, A]
1	[_Y_, X, D, C, B, A, Z]
2	[_X_, D, C, B, A, Y, Z]
3	[_D_, C, B, A, X, Y, Z]
4	[_B_, A, C, D, X, Y, Z]
5	[_B_, A, C, D, X, Y, Z]
6	[_A_, B, C, D, X, Y, Z]
7	[A, B, C, D, X, Y, Z]

Cocktail Sort Random

Iteration	List	Swaps
0	[C, D, Y, X, A, Z, B]	0
1	[C, D, X, A, Y, B, Z]	3
2	[A, C, D, X, B, Y, Z]	4
3	[A, C, D, B, X, Y, Z]	1
4	[A, B, C, D, X, Y, Z]	2

Cocktail Sort Sorted

Iteration	List	Swaps
0	[A, B, C, D, X, Y, Z]	0

1	[A, B, C, D, X, Y, Z]	0
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Cocktail Sort Reversed

Iteration	List	Swaps
0	[Z, Y, X, D, C, B, A]	0
1	[Y, X, D, C, B, A, Z]	6
2	[A, Y, X, D, C, B, Z]	5
3	[A, X, D, C, B, Y, Z]	4
4	[A, B, X, D, C, Y, Z]	3
5	[A, B, D, C, X, Y, Z]	2
6	[A, B, C, D, X, Y, Z]	1