```
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: (Red – current position, Black – unsorted list)
Iteration 0
               [C, D, Y, X, A, Z, B]
Iteration 1
               [C, D, Y, X, A, Z, B]
Iteration 2
               [C, D, Y, X, A, Z, B]
Iteration 3
               [C, D, X, Y, A, Z, B]
Iteration 4
               [ A, C, D, X, Y, Z, B]
Iteration 5
               [ A, C, D, X, Y, Z, B]
               [A, B, C, D, X, Y, Z]
Iteration 6
Insertion sort – Sorted: (Red – current position, Black – unsorted list)
Iteration 0
               [A, B, C, D, X, Y, Z]
Iteration 1
               [A, B, C, D, X, Y, Z]
Iteration 2
               [A, B, C, D, X, Y, Z]
Iteration 3
               [A, B, C, D, X, Y, Z]
Iteration 4
               [A, B, C, D, X, Y, Z]
Iteration 5
               [A, B, C, D, X, Y, Z]
Iteration 6
               [A, B, C, D, X, Y, Z]
Insertion sort – reversed: (Red – current position, Black – unsorted list)
Iteration 0
               [Z, Y, X, D, C, B, A]
Iteration 1
               [Y, Z, X, D, C, B, A]
Iteration 2
               [X, Y, Z, D, C, B, A]
Iteration 3
               [D, X, Y, Z, C, B, A]
Iteration 4
               [C, D, X, Y, Z, B, A]
Iteration 5
               [B, C, D, X, Y, Z, A]
Iteration 6
               [A, B, C, D, X, Y, Z]
Quick sort - Random: (Red - pivot, Black - Unsorted List, Blue & Red - sorted)
Each iteration means one call to quick sort() (except call on empty list)
Iteration 0
               [A, B, C, D, Y, X, Z]
Iteration 1
               [A, B, C, D, Y, X, Z]
Iteration 2
               [A, B, C, D, Y, X, Z]
Iteration 3
               [A, B, C, D, X, Y, Z]
Iteration 4
             [A, B, C, D, X, Y, Z]
Iteration 6
               [A, B, C, D, X, Y, Z]
```

```
Each iteration means one call to quick sort() (except call on empty list)
Iteration 0
               [A, B, C, D, X, Y, Z]
Iteration 1
               [A, B, C, D, X, Y, Z]
Iteration 2
               [A, B, C, D, X, Y, Z]
Iteration 3
               [A, B, C, D, X, Y, Z]
               [A, B, C, D, X, Y, Z]
Iteration 4
Iteration 5
               [A, B, C, D, X, Y, Z]
Iteration 6
               [A, B, C, D, X, Y, Z]
Quick sort - Reversed: (Red - pivot, Black - Unsorted List, Blue & Red - sorted)
Each iteration means one call to quick sort() (except call on empty list)
Iteration 0
               [Y, X, D, C, B, A, Z]
Iteration 1
               [X, D, C, B, A, Y, Z]
Iteration 2
               [D, C, B, A, X, Y, Z]
               [C, B, A, D, X, Y, Z]
Iteration 3
Iteration 4
               [B, A, C, D, X, Y, Z]
Iteration 5
               [A, B, C, D, X, Y, Z]
Iteration 6
               [A, B, C, D, X, Y, Z]
Tim sort – Random:
Iteration 0
               [C, D, Y, X, A, Z, B]
Iteration 1
               [C, D, X, Y, A, Z, B]
Iteration 2
               [C, D, X, Y, A, Z, B]
Iteration 3
               A, C, D, X, Y, Z, B
Iteration 4
               [A, B, C, D, X, Y, Z]
Tim sort – Sorted:
Iteration 0
               [A, B, C, D, X, Y, Z]
Iteration 1
               [A, B, C, D, X, Y, Z]
Iteration 2
               [A, B, C, D, X, Y, Z]
Iteration 3
               [A, B, C, D, X, Y, Z]
Iteration 4
               [A, B, C, D, X, Y, Z]
Tim sort - Reversed:
Iteration 0
               [Z, Y, X, D, C, B, A]
               [Y, Z, D, X, B, C, A]
Iteration 1
Iteration 2
               [D, X, Y, Z, B, C, A]
               [B, C, D, X, Y, Z, A]
Iteration 3
Iteration 4
               [A, B, C, D, X, Y, Z]
```

Quick sort – Sorted: (Red – pivot, Black – Unsorted List, Blue & Red – sorted)