Jonathan Tran A15967290

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

Insertion sort

9

9

9

0

0

0

10 2

e

3466

Iteration 0: [D,X,A,B,Y,C,Z] Iteration 1: [D,X,A,B,Y,C,Z]

Iteration 2: [A, B, D, X, B, Y, C, Z] [A, B, D, X, Y, C, Z] Iteration 3:

Iteration 4: [A,B,D,X,Y]C,Z]

Iteration S: [A,B,C,D,X,Y,Z] Iteration 6: [A.B. C.D. X. Y. Z]

Iteration 0: Iteration 1:

Iteration2: [AB, CD, X,

Iteration 3:

[A, B, C, D, X, Y, Iteration 4: Iteration s:

Heration 6: CA, B, C, D, X, Y, 12/3

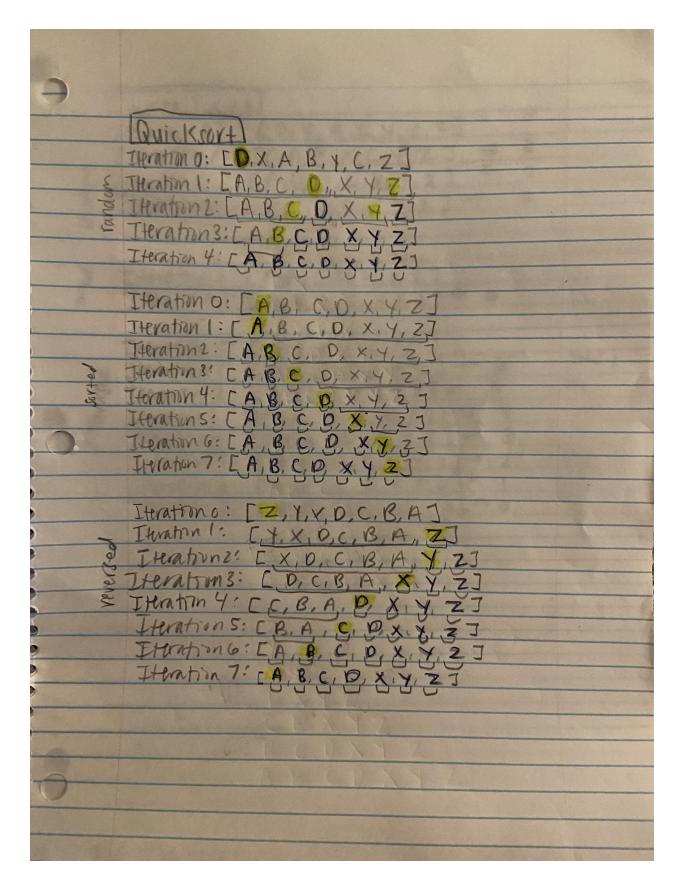
Iteration 0: [Z] Y, X, D, C, B, A Iteration 1: [YZ, X, D, C, B, A]

EXY, Z, D, C, B, A-Iteration 2:

[D, X, Y, Z, C, B, A] [C, D, X, Y, Z, B, A] [B, C, D, X, Y, Z, A] [A, B, C, D, X, Y, Z] 3 Iterations:

Iteration 5:

Heration 6:



¥ .	Conktail sort Theration 0: [D, X, A, B, Y, C, Z] Theration 1: [D, A, B, X, C, Y, Z] Theration 2: [A, D, B, C, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z] Theration 3: [A, B, C, D, X, Y, Z]	2
red	Iteration 0: $[A,B,C,D,X,Y,2]$ Iteration 1: $[A,B,C,D,X,Y,2] \Rightarrow \emptyset$ Iteration 0: $[A,B,C,D,X,Y,2] \Rightarrow \emptyset$ Iteration 1: $[A,X,D,C,B,A,2] \rightarrow \emptyset$ Iteration 2: $[A,Y,X,D,C,B,Z] \leftarrow S$ Iteration 3: $[A,X,D,C,B,X,Z] \rightarrow Y$ Iteration 4: $[A,B,X,D,C,B,X,Z] \rightarrow Y$ Iteration 5: $[A,B,X,D,C,X,Y,Z] \leftarrow S$ Iteration 6: $[A,B,D,C,X,Y,Z] \leftarrow S$ Iteration 7: $[A,B,C,D,X,Y,Z] \leftarrow S$	11 11 11 11 11 11 11 11 11 11 11 11 11