

Insertion = Random	iteration #	list	legend
	0	[C, D, Y, X, A, Z, B]	sorted unexamined inserted
	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, C, D, X, Y, Z, B]	
	6	[A, C, D, X, Y, Z, B]	

sorted	iter #	list	reversed	iter #	list
	0	[A, B, C, D, X, Y, Z]		0	[Z, Y, X, D, C, B, A]
	1	[A, B, C, D, X, Y, Z]		1	[Y, Z, X, D, C, B, A]
	2	[A, B, C, D, X, Y, Z]		2	[X, Y, Z, D, C, B, A]
	3	[A, B, C, D, X, Y, Z]		3	[D, X, Y, Z, C, B, A]
	4	[A, B, C, D, X, Y, Z]		4	[C, D, X, Y, Z, B, A]

quicksort = random

iter #

list

legend

0

[C, D, Y, X, A, Z, B]

sorted

1

[A, B, C, D, Y, X, Z]

unsorted

2

[A, B, C, D, Y, X, Z]

print
↑

3

[A, B, C, D, X, Y, Z]

4

[A, B, C, D, X, Y, Z]

5

[A, B, C, D, X, Y, Z]

sorted

iter #

list

reversed

iter #

list

0

[A, B, C, D, X, Y, Z]

0

[Z, Y, X, D, C, B, A]

1

[A, B, C, D, X, Y, Z]

1

[Y, X, D, C, B, A, Z]

2

[A, B, C, D, X, Y, Z]

2

[X, D, C, B, A, Y, Z]

3

[A, B, C, D, X, Y, Z]

3

[D, C, B, A, X, Y, Z]

4

[A, B, C, D, X, Y, Z]

4

[C, B, A, D, X, Y, Z]

find sort : random

iter #

list

legend

0 [C, D, Y, X, A, Z, B]

sub-array

1 [C, D, X, Y, A, Z, B]

2 [C, D, X, Y, A, B, Z]

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

sorted

iter #

list

reversed

iter #

list

0 [A, B, C, D, X, Y, Z]

0 [Z, Y, X, D, C, B, A]

1 [A, B, C, D, X, Y, Z]

1 [Y, Z, D, X, C, B, A]

2 [A, B, C, D, X, Y, Z]

2 [D, X, Y, Z, A, B, C]

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

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