

# Bubble Sort

# 1<sup>st</sup> Iteration



4	9	5	1	0
4	9	5	1	0
4	5	9	1	0
4	5	9	1	0
4	5	1	9	0
4	5	1	9	0
4	5	1	0	9

## 2<sup>ND</sup> Iteration



4	5	1	0	9
---	---	---	---	---

4	5	1	0	9
---	---	---	---	---

4	1	5	0	9
---	---	---	---	---

4	1	5	0	9
---	---	---	---	---

4	1	0	5	9
---	---	---	---	---

## 3<sup>rd</sup> Iteration



4	1	0	5	9
---	---	---	---	---

1	4	0	5	9
---	---	---	---	---

1	4	0	5	9
---	---	---	---	---

1	0	4	5	9
---	---	---	---	---

## 4<sup>th</sup> Iteration



1	0	4	5	9
0	1	4	5	9

# Index Sort



26	54	93	17	77	31	44	55	20
----	----	----	----	----	----	----	----	----

26	54	20	17	77	31	44	55	93
----	----	----	----	----	----	----	----	----



26	54	20	17	77	31	44	55	93
----	----	----	----	----	----	----	----	----

26	54	20	17	55	31	44	77	93
----	----	----	----	----	----	----	----	----



26	54	20	17	55	31	44	77	93
----	----	----	----	----	----	----	----	----

26	54	20	17	44	31	55	77	93
----	----	----	----	----	----	----	----	----



26	54	20	17	44	31	55	77	93
----	----	----	----	----	----	----	----	----

26	31	20	17	44	54	55	77	93
----	----	----	----	----	----	----	----	----



26	31	20	17	44	54	55	77	93
----	----	----	----	----	----	----	----	----



26	31	20	17	44	54	55	77	93
----	----	----	----	----	----	----	----	----

26	17	20	31	44	54	55	77	93
----	----	----	----	----	----	----	----	----





26	17	20	31	44	54	55	77	93
20	17	26	31	44	54	55	77	93



20	17	26	31	44	54	55	77	93
17	20	26	31	44	54	55	77	93

# Merge Sort

70	50	30	10	20	40	60
----	----	----	----	----	----	----



70	50	30	10
----	----	----	----

20	40	60
----	----	----



70	50
----	----

30	10
----	----

20	40
----	----

60
----



70
----

50
----

30
----

10
----

20
----

40
----

60
----



50	70
----	----

10	30
----	----

20	40
----	----

60
----



10	30	50	70
----	----	----	----

20	40	60
----	----	----



10	20	30	40	50	60	70
----	----	----	----	----	----	----

# Quick Sort

