

Original list: [15, 16, 73, 65, 38, 10, 22, 79, 87, 64]

Selection sort by min

Step: 1

[10, 16, 73, 65, 38, 15, 22, 79, 87, 64]

Step: 2

[10, 15, 73, 65, 38, 16, 22, 79, 87, 64]

Step: 3

[10, 15, 16, 65, 38, 73, 22, 79, 87, 64]

Step: 4

[10, 15, 16, 22, 38, 73, 65, 79, 87, 64]

Step: 5

[10, 15, 16, 22, 38, 73, 65, 79, 87, 64]

Step: 6

[10, 15, 16, 22, 38, 64, 65, 79, 87, 73]

Step: 7

[10, 15, 16, 22, 38, 64, 65, 79, 87, 73]

Step: 8

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]

Step: 9

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 10

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Finalized sorted list

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Selection sort by max

Step: 1

[15, 16, 73, 65, 38, 10, 22, 79, 64, 87]

Step: 2

[15, 16, 73, 65, 38, 10, 22, 64, 79, 87]

Step: 3

[15, 16, 64, 65, 38, 10, 22, 73, 79, 87]

Step: 4

[15, 16, 64, 22, 38, 10, 65, 73, 79, 87]

Step: 5

[15, 16, 10, 22, 38, 64, 65, 73, 79, 87]

Step: 6

[15, 16, 10, 22, 38, 64, 65, 73, 79, 87]

Step: 7

[15, 16, 10, 22, 38, 64, 65, 73, 79, 87]

Step: 8

[15, 10, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 9

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 10

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Finalized sorted list

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Insertion sort

Step: 1

[15, 16, 73, 65, 38, 10, 22, 79, 87, 64]

Step: 2

[15, 16, 73, 65, 38, 10, 22, 79, 87, 64]

Step: 3

[15, 16, 65, 73, 38, 10, 22, 79, 87, 64]

Step: 4

[15, 16, 38, 65, 73, 10, 22, 79, 87, 64]

Step: 5

[10, 15, 16, 38, 65, 73, 22, 79, 87, 64]

Step: 6

[10, 15, 16, 22, 38, 65, 73, 79, 87, 64]

Step: 7

[10, 15, 16, 22, 38, 65, 73, 79, 87, 64]

Step: 8

[10, 15, 16, 22, 38, 65, 73, 79, 87, 64]

Step: 9

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Finalized sorted list

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Quick sort

Step: 1

[15, 16, 73, 65, 38, 10, 22, 79, 87, 64]

Step: 2

[10, 15, 73, 65, 38, 16, 22, 79, 87, 64]

Step: 3

[10, 15, 73, 65, 38, 16, 22, 79, 87, 64]

Step: 4

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]

Step: 5

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]

Step: 6

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]

Step: 7

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]

Step: 8

[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 9
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 10
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 11
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 12
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 13
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 14
[10, 15, 16, 22, 38, 64, 65, 73, 87, 79]
Step: 15
[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]
Finalized sorted list
[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Merge sort

Splitting [15, 16, 73, 65, 38, 10, 22, 79, 87, 64]

Splitting [15, 16, 73, 65, 38]

Splitting [15, 16]

Splitting [15]

Merging [15]

Splitting [16]

Merging [16]

Merging [15, 16]

Splitting [73, 65, 38]

Splitting [73]

Merging [73]

Splitting [65, 38]

Splitting [65]

Merging [65]

Splitting [38]

Merging [38]

Merging [38, 65]

Merging [38, 65, 73]

Merging [15, 16, 38, 65, 73]

Splitting [10, 22, 79, 87, 64]

Splitting [10, 22]

Splitting [10]

Merging [10]

Splitting [22]

Merging [22]

Merging [10, 22]
Splitting [79, 87, 64]
Splitting [79]
Merging [79]
Splitting [87, 64]
Splitting [87]
Merging [87]
Splitting [64]
Merging [64]
Merging [64, 87]
Merging [64, 79, 87]
Merging [10, 22, 64, 79, 87]
Merging [10, 15, 16, 22, 38, 64, 65, 73, 79, 87]
Finalized sorted list
[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Heap sort

Step: 1

[10, 15, 16, 73, 65, 38, 22, 79, 87, 64]

Step: 2

[10, 15, 16, 73, 65, 38, 22, 79, 87, 64]

Step: 3

[10, 15, 16, 73, 65, 38, 22, 79, 87, 64]

Step: 4

[10, 15, 16, 22, 73, 65, 38, 79, 87, 64]

Step: 5

[10, 15, 16, 22, 38, 73, 65, 79, 87, 64]

Step: 6

[10, 15, 16, 22, 38, 64, 73, 65, 79, 87]

Step: 7

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 8

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 9

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]

Step: 10

[10, 15, 16, 22, 38, 64, 65, 73, 79, 87]