1, 2, 3, 4, 5 Pivot: 5

O(n) 1, 2, 3, 4 Pivot: 4

O(n) 1, 2, 3 Pivot: 3

O(n) 1, 2 Pivot: 2

1

O(n) 4, 3, 8, 7, 2, 6, 5 Pivot: 5

O(n/2) Pivot: 2 4, 3, 2 5 8, 7, 6 Pivot: 6 O(n/2)

O(n/4) Pivot: 3 2 4, 3 6 8, 7 Pivot: 7 O(n/4)

3 4 7 8

Sorted Array: [1, 3, 5, 6, 7, 8, 9, 10]

[6, 5, 1, 3, 8, 7, 10, 9]

[1, 3, 5, 6] [7, 8, 9, 10]

[6, 5, 1, 3] [8, 7, 10, 9]

[5, 6] [1, 3] [7, 8] [9, 10]

[6, 5] [1, 3] [8, 7] [10, 9] [6] [5] [1] [3] [8] [7] [10] [9]

[6] [5] [1] [3] [8] [7] [10] [9]

[1, 3, 5, 6, 7, 8, 9, 10]