Sorting Array: 1,7,8,5,3,6,4,2

a) Selection Sort

@ swap

· iteration

b) Insertion Sort

· sorted partition

· swap • where is it placed

c) Merge sort

$$\begin{vmatrix}
1 & 7 & 8 & 5 & 3 & 6 & 4 & 2 \\
1 & 7 & 8 & 5 & 3 & 6 & 4 & 2 \\
1 & 7 & 8 & 5 & 3 & 6 & 4 & 2 \\
1 & 1 & 7 & 8 & 5 & 3 & 6 & 4 & 2 \\
1 & 7 & 5 & 8 & 3 & 6 & 2 & 4 & 6 \\
1 & 5 & 7 & 8 & 2 & 3 & 4 & 6 \\
1 & 5 & 7 & 8 & 2 & 3 & 4 & 6$$

d) anick 50/4

1 7 8 5 3 6 4 2

1 2 3 4 5 6 7 8

split

· Sort accend

· Pivot

O sorted