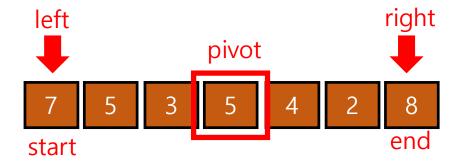
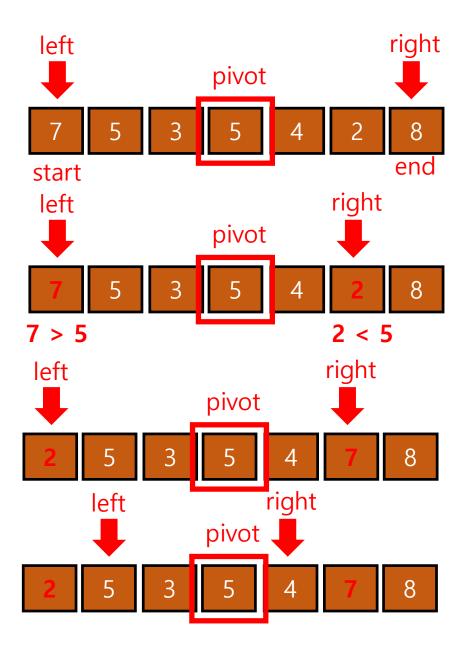
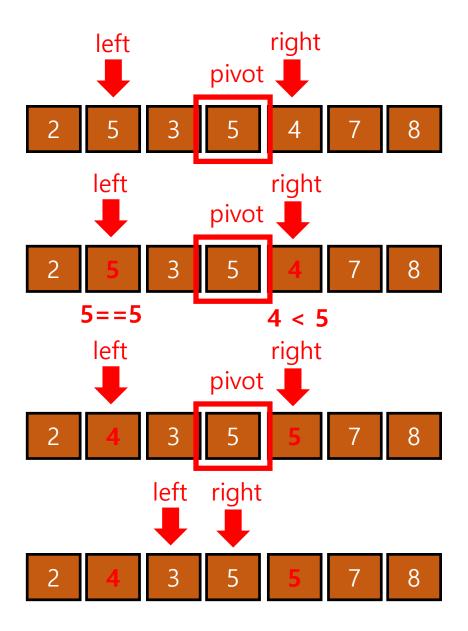
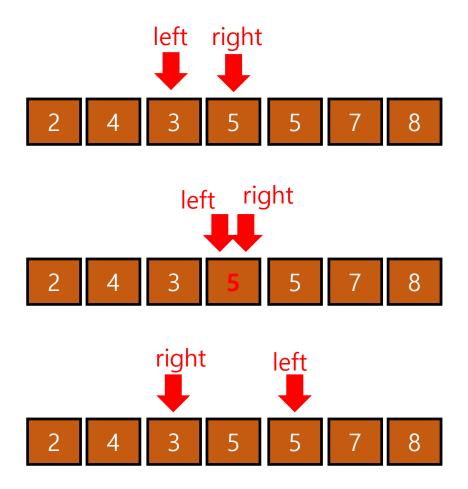
Data structure

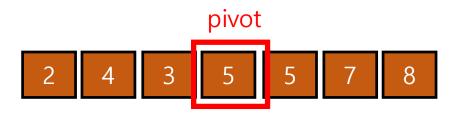
Quick sort

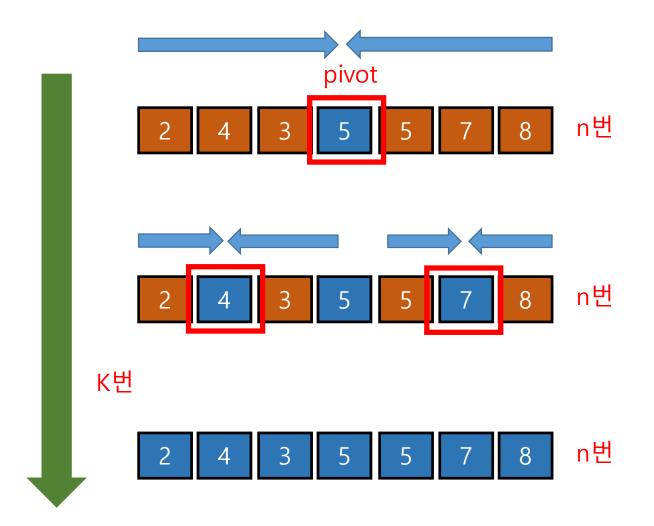












$$T(n) = n * k$$

$$n * (\frac{1}{2})^k = 1$$
 $k = \log_2 n$

$$T(n) = n * \log_2 n$$

O(n * log n)