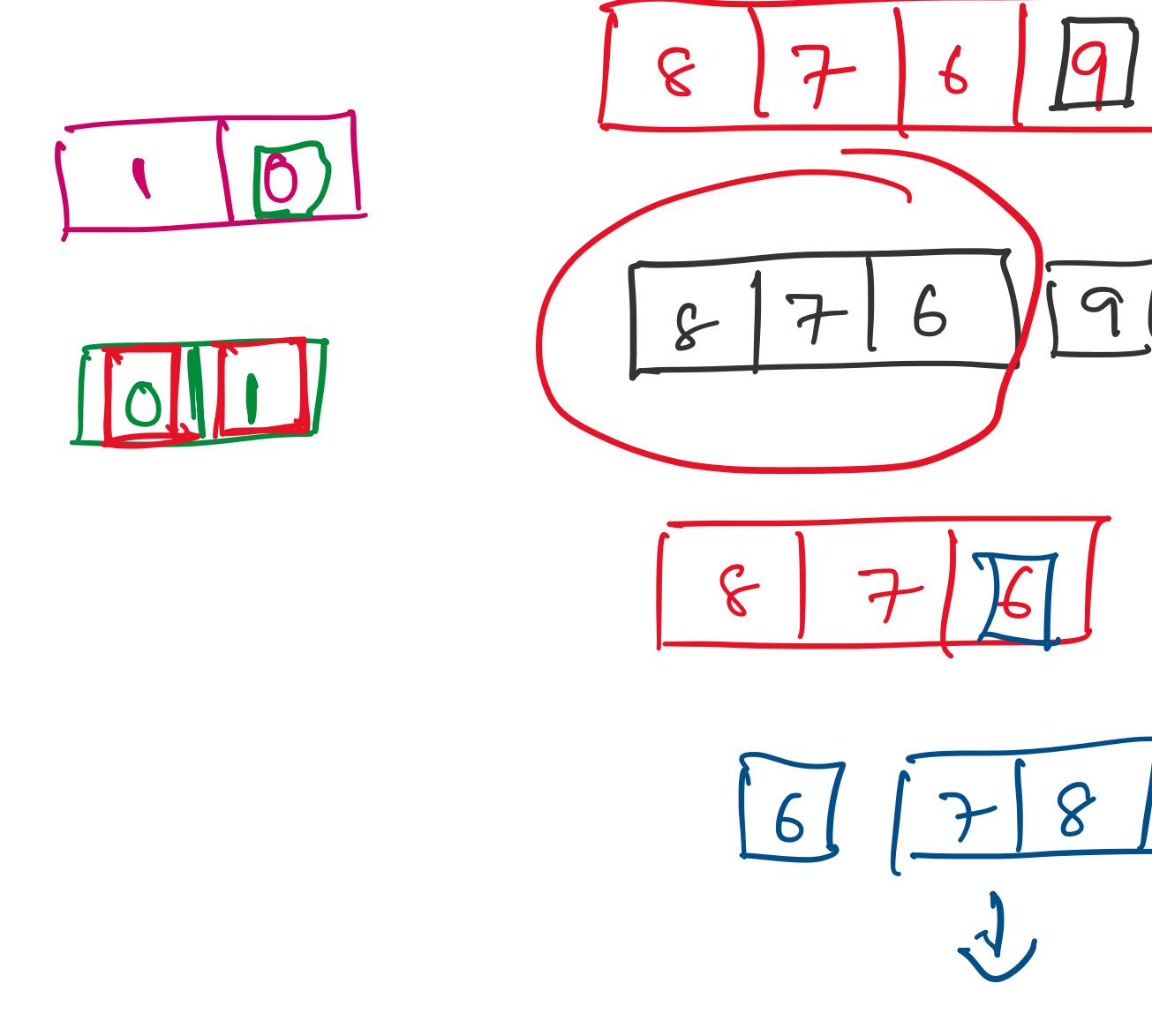


① select a first element = 2 = x
right most element as first

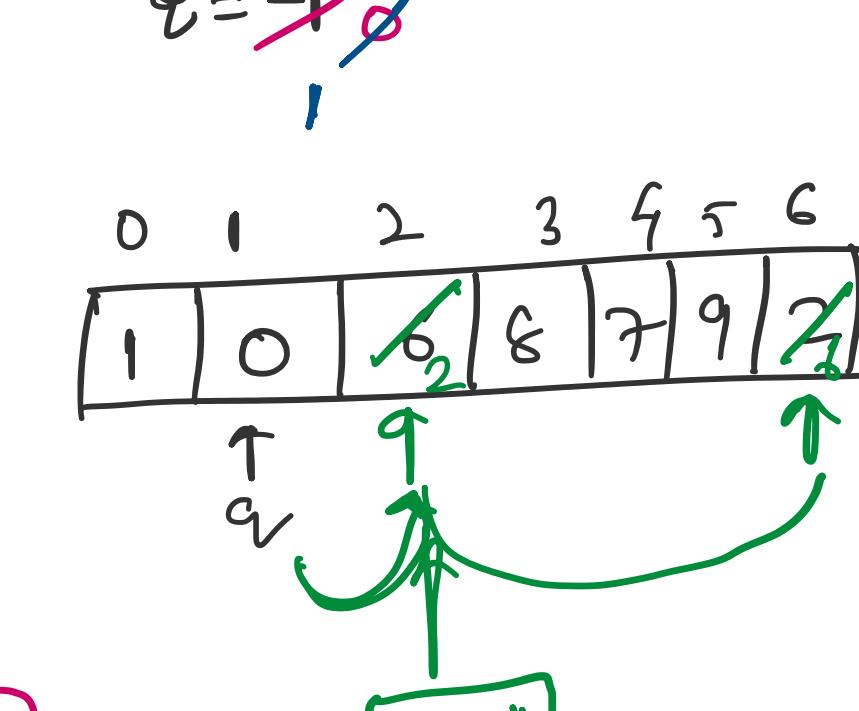
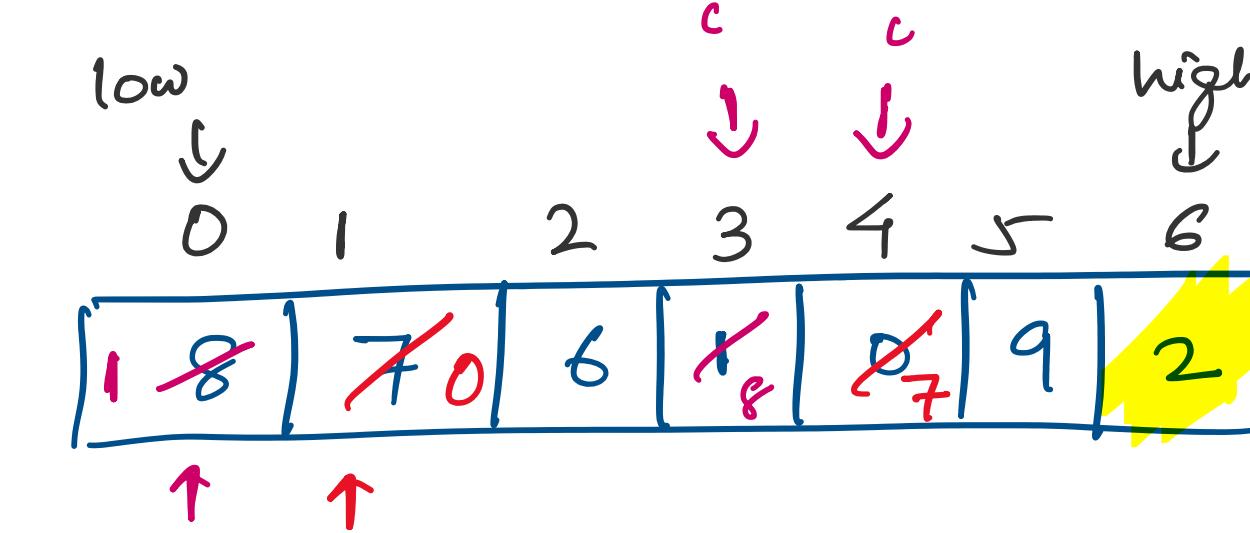
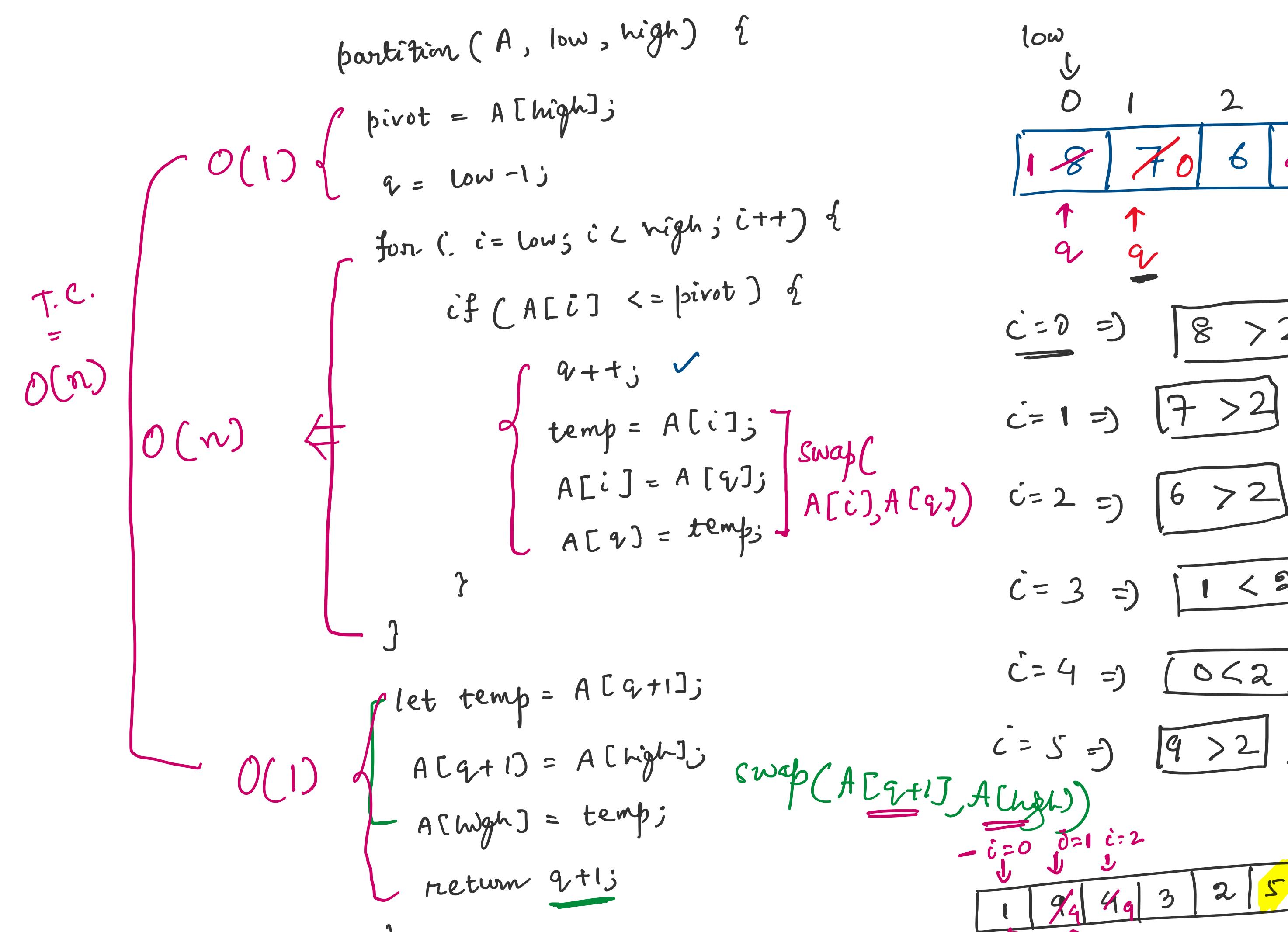
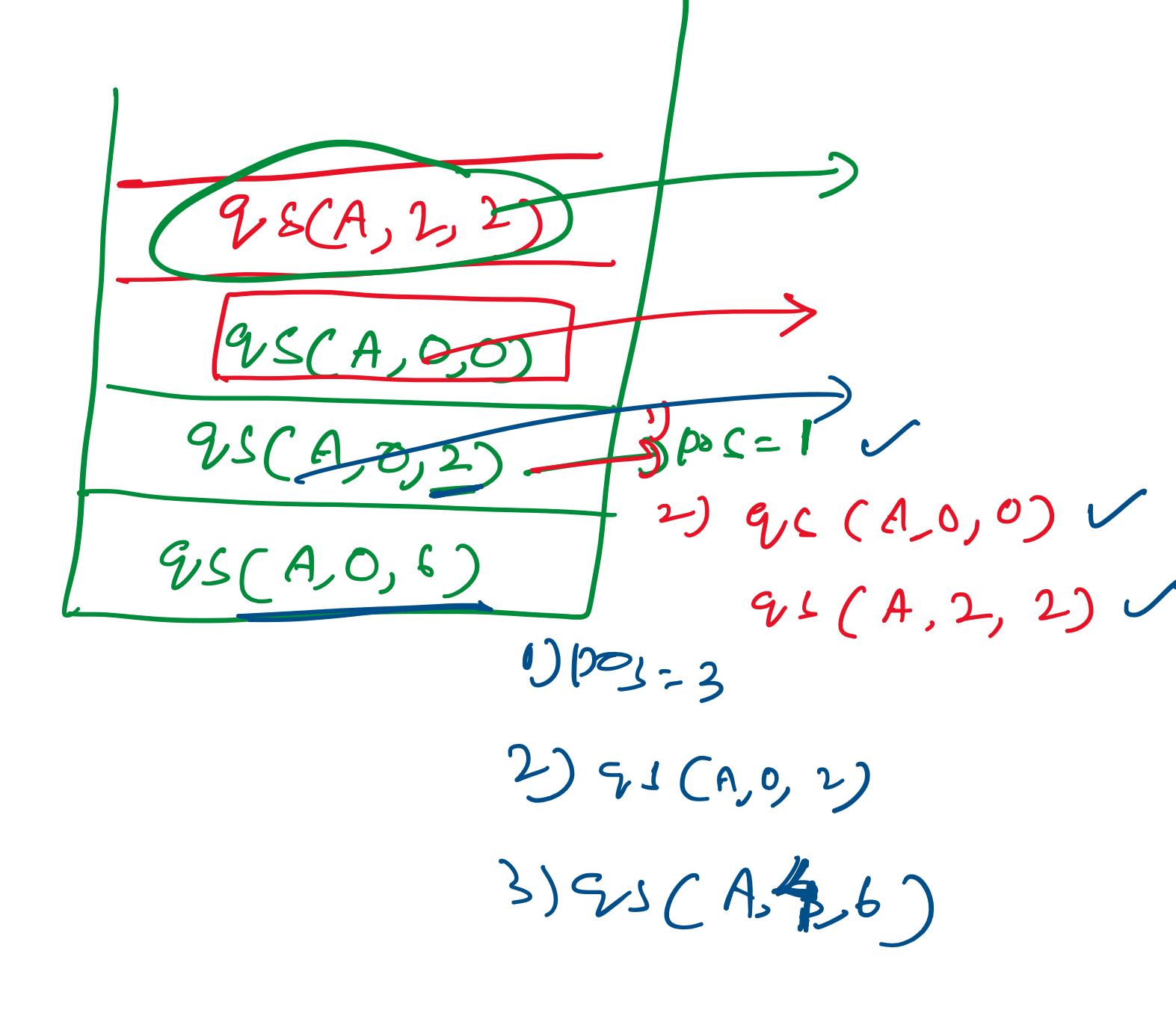
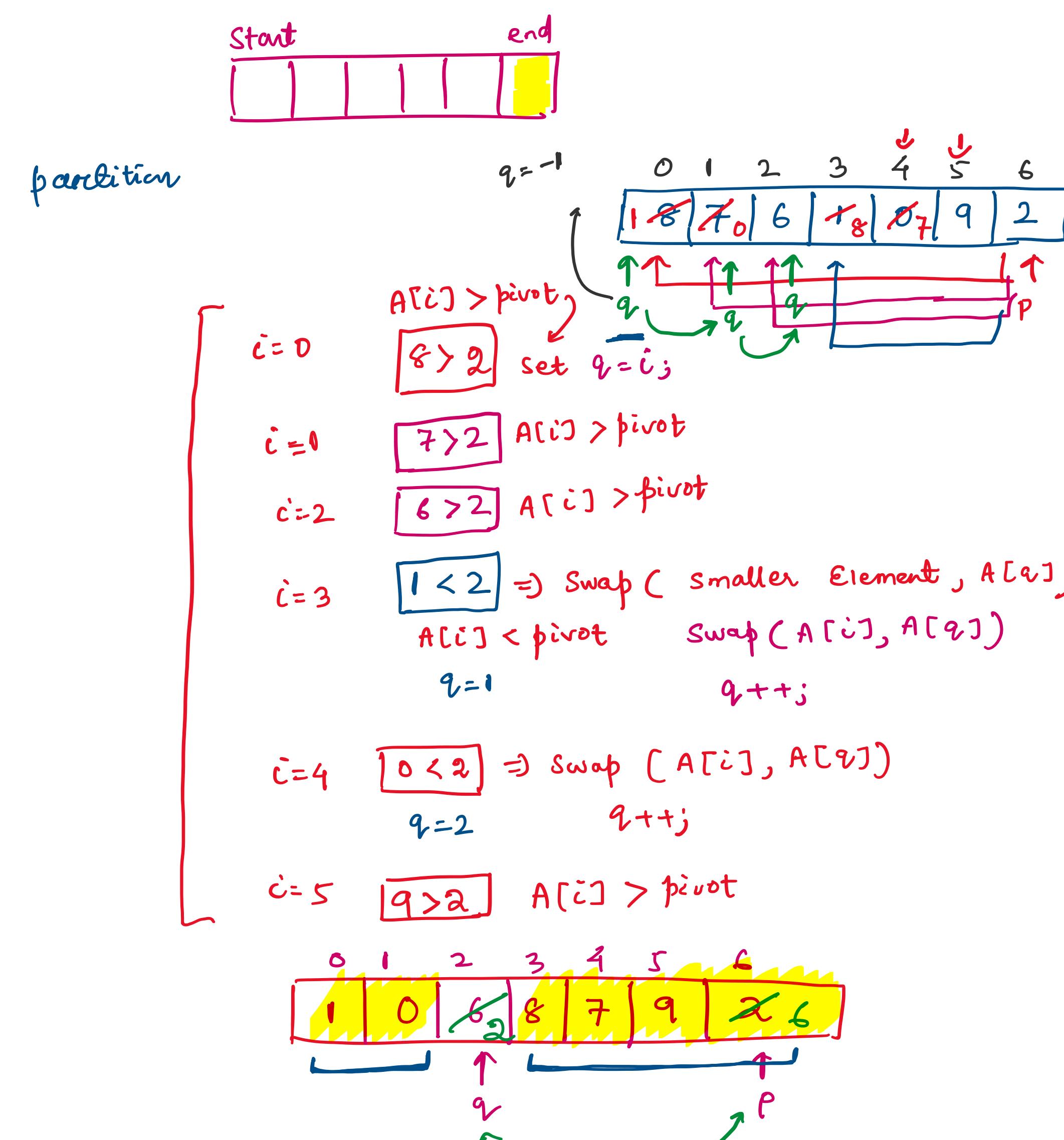
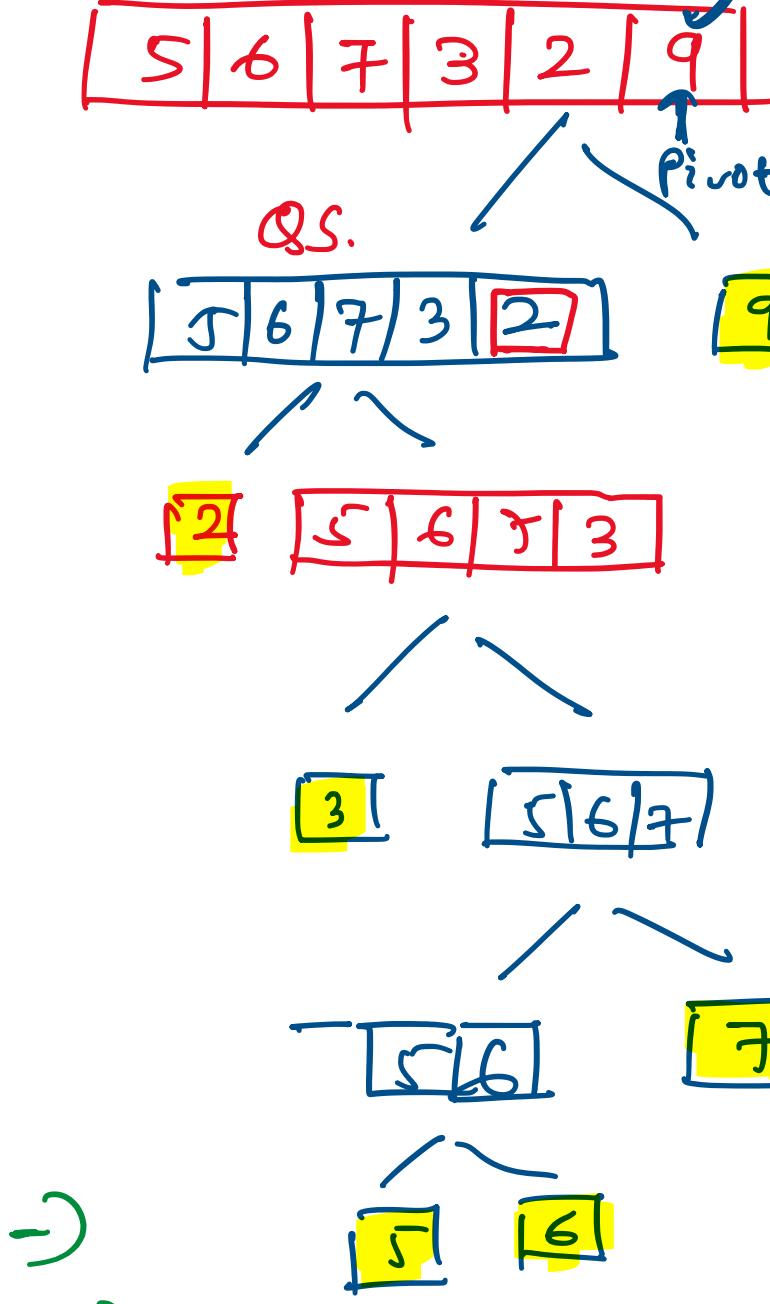
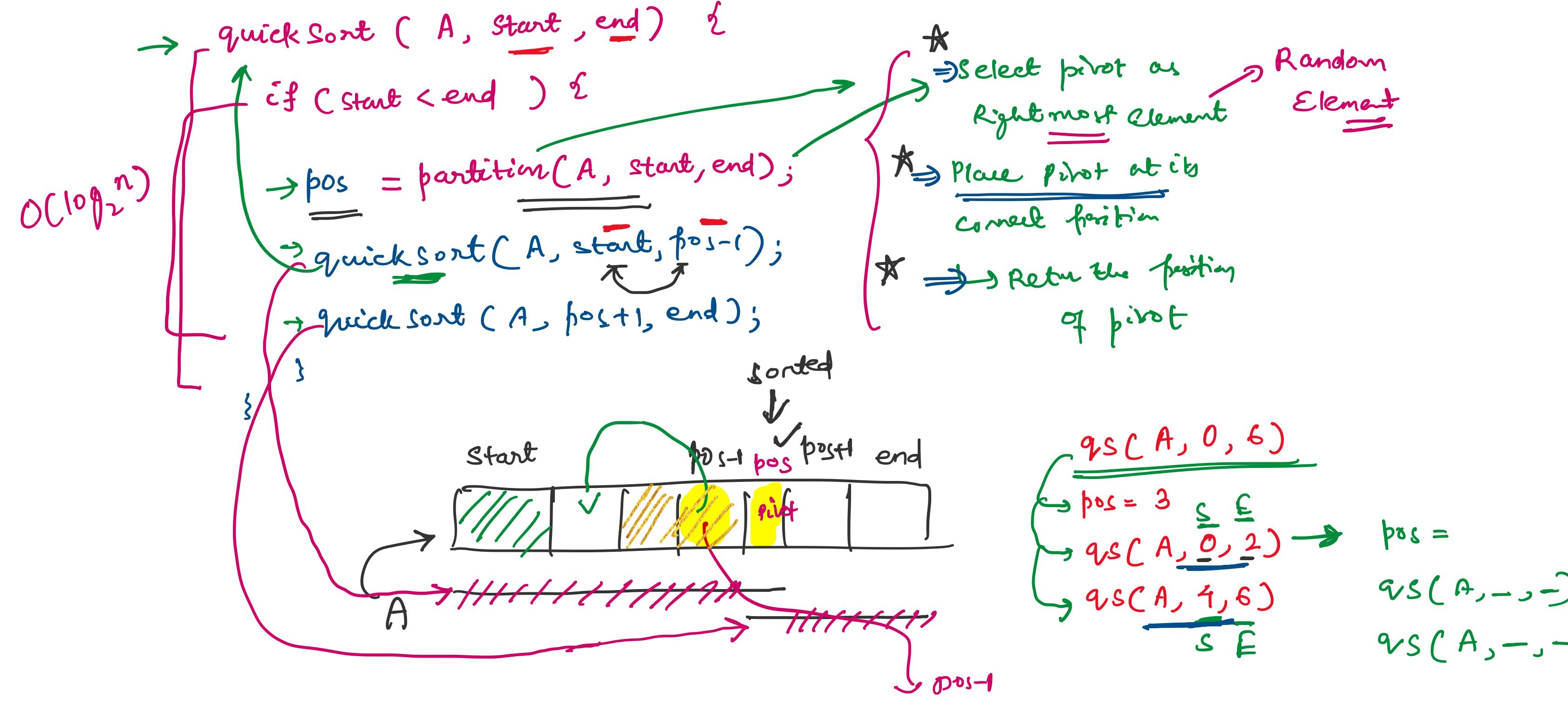
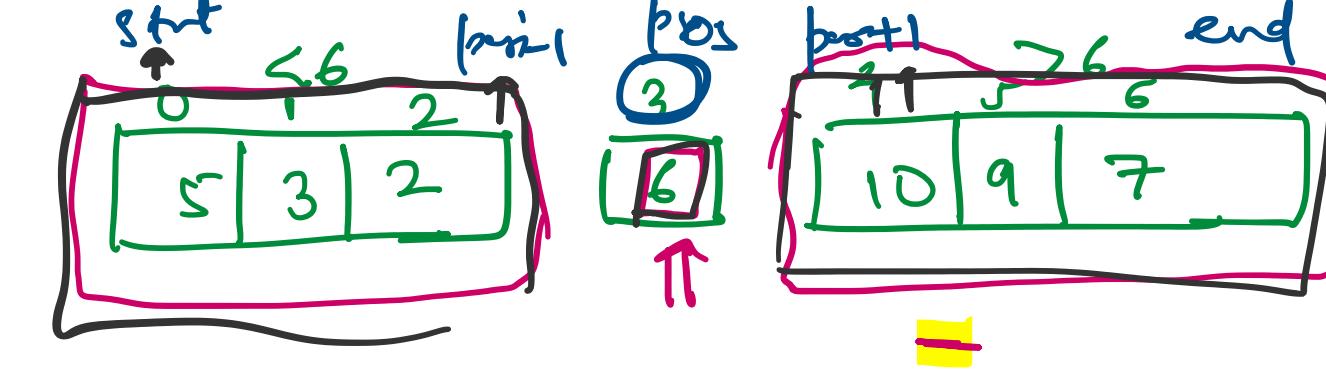
② rearrange the array.

Left: $< x$
Put all smaller elements in left

Right: $> x$
Put all greater elements in right



A [0 1 2 3 4 5 6]



$q = -1$

$i = 0$

$i = 1$

$i = 2$

$i = 3$

$i = 4$

$i = 5$

$i = 6$

$i = 7$

$i = 8$

$i = 9$

$i = 10$

$i = 11$

$i = 12$

$i = 13$

$i = 14$

$i = 15$

$i = 16$

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$i = 131$

$i = 132$