

Q2 Given $\langle 48, 44, 19, 59, 72, 80, 42, 65, 82, 8 \rangle$

Assume first element be the first element.

first, $i = 48$, $j = 8$, $p = 48$

$48, 44, 19, 59, 72, 80, 42, 65, 82, 8$
 i j
 p

i moves till 59, exchange 59 & 8
 we get,

$48, 44, 19, 8, 72, 80, 42, 65, 82, 59$
 i j
 p

j moves till 42, exchange 42 and 8.

$48, 44, 19, 42, 72, 80, 8, 65, 82, 59$
 i j

i moves till 72, exchange 72 and 8

$48, 44, 19, 42, 8, 80, 72, 65, 82, 59$
 i j

Here i moves till 80 and j till 8 as $i > j$,
 exchange 48 and 8.

8 44 19 42 48 80 72 65 82 59
 p j i

Now, consider $\langle 80, 72, 65, 82, 59 \rangle$
 i j
 p

we get $80, 72, 65, 59, 82$
 p i j

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exchange 20 and 59

$\langle 59, 72, 65, 80, 82 \rangle$

Applying above process we get

sorted part $\langle 65, 72, 80, 82 \rangle$ (exchange 72 and 65)

Now consider $\langle 8, 44, 19, 42 \rangle$

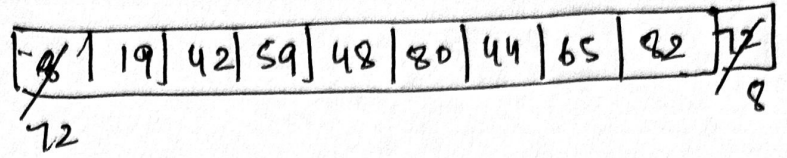
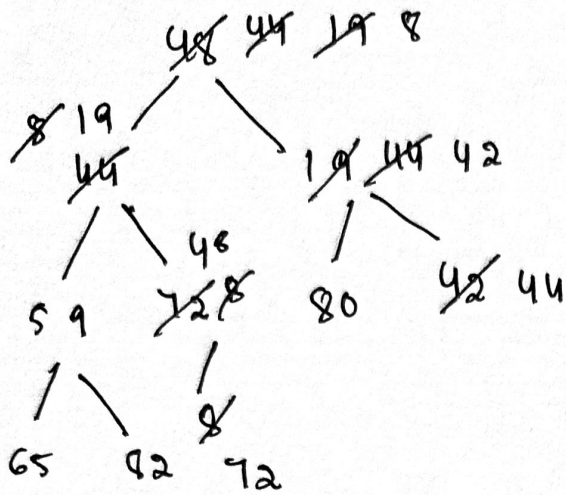
Applying above process we get

$\langle 8, 19, 42, 44 \rangle$

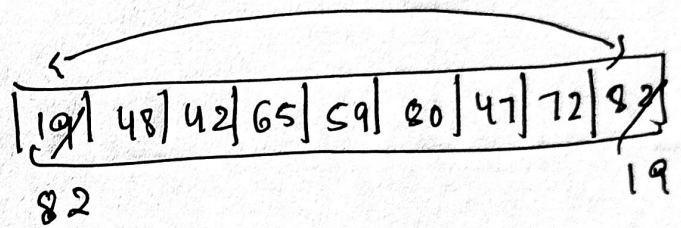
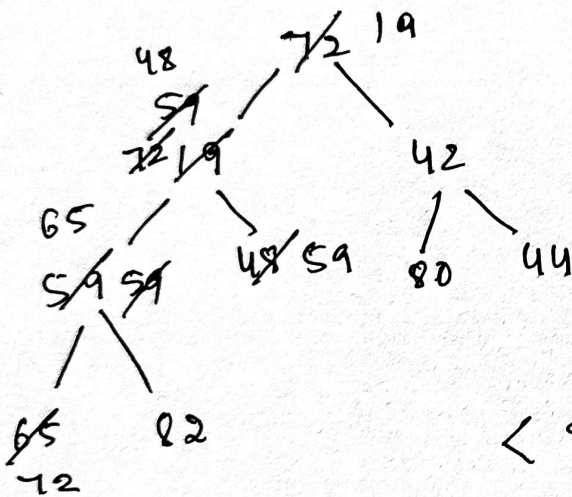
So, combining all

$\langle 8, 19, 42, 44, 48, 59, 65, 72, 80, 82 \rangle$

b) $\langle 48, 44, 19, 59, 72, 80, 42, 65, 82, 8 \rangle$



$\langle 72, 19, 42, 59, 48, 80, 44, 65, 82 \rangle$



$\langle 82, 48, 42, 65, 59, 80, 44, 72 \rangle$

