Q1. Given an array where all its elements are sorted in increasing order except two swapped elements, sort it in linear time.

Assume there are no duplicates in the array.

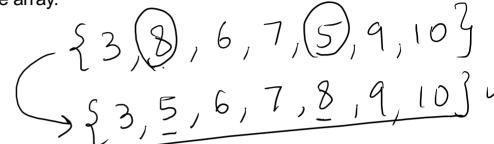
Input: arr[] = [3, 8, 6, 7, 5, 9, 10] Output: arr[] = [3, 5, 6, 7, 8, 9, 10]

Input: arr[] = [1,2,4,3,5,6]Output : arr[] = [1,2,3,4,5,6] Q1. Given an array where all its elements are sorted in increasing order except two swapped elements, sort it in linear time.

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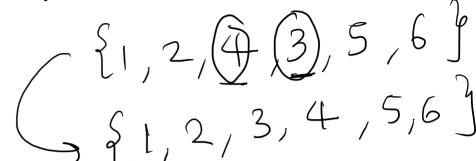


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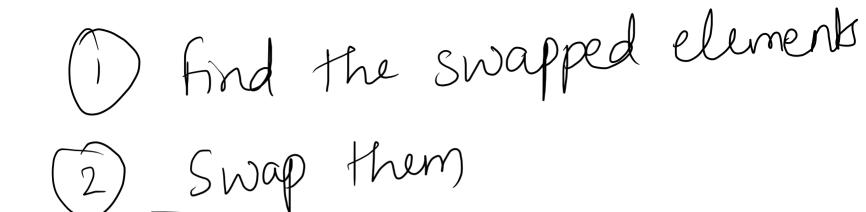
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 $\begin{cases} 2, 4, 3, 5, 6 \end{cases}$   $\begin{cases} 2, 4, 3, 4, 5, 6 \end{cases}$ 



Swap (arr [x], anty])

S1,2,4,5,63 > n i ] V M 2

$$\frac{1}{5} = 0(n)$$