## Next Greater Element - 111

Given a character array, with digits of a number at indexes, find the smallest integer which has exactly the same digit and the value is greater than the number in Chil

Ex: 31, 23 > ans = 21 be greater "12". => "21"

Ex: {9,7,5,3,2} => ans = -1 is greater than 97532"

//idea -1:

Herate from n+1 till you get the answer & check for every integer if Occurances of digits same or not

Suppose 38 -> is our given array \$3,83 Iterate from 39,40,41,...,59, ....82,83,84,

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charly .		December					
check every r	from (39 to 99)	) ~ "83"	We o	find S	, ame 0	(LV~ances	of digits
and this i	s our next great	er element.					
/idea-2 (optimal)							

So, let us take an example

(12145)

If we want the next greater dement of this number, we swap last 2 digits

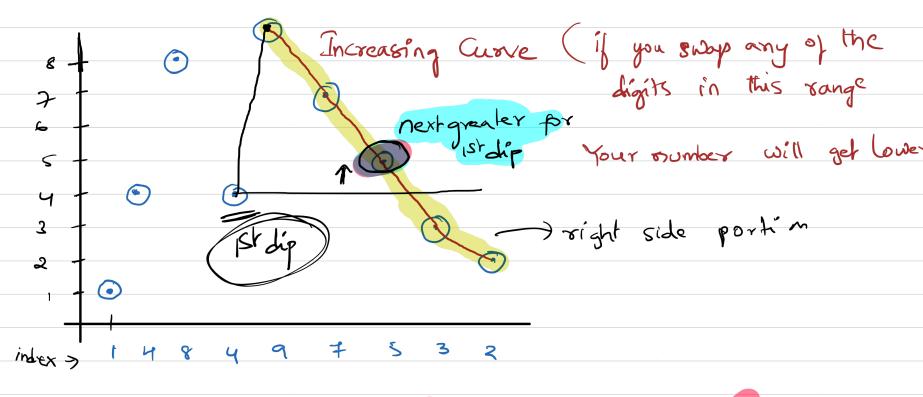
So that new number = 12154

12154 > 121 45

An Observation here is,

As we want to do minimum Increment, We target Smaller place Value and We Swap them

## Ex: 148497532



\* So the most important point is > look for 1st dip & Swaps it with

the next greatest number in right side portion



\* Look for next greater Element for 4 in right portion Ex: 148497532 next greater Ex: 148497532 97774 >> So 7 is
potential next Ex: 148497532 Ex: 148497532 3<4 -> Break Sup (4,5) >> 1485/97432 Sort them in ascending Order

Sorted

Sort them in ascending Order

Sorted

So

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