nums = [1,3,5,4,7]
ans = 1 } → min
max = 1

$max \rightarrow$ counting

i++
nums = [1,3,5,4,7]
i+2...

if $i < i+1$

   ans = biggest between ans, max

  max++

if $i \geq i+1$

  max = 1 $\longrightarrow$ refresh counting

So, if we have multiple increasing subsequences "max" variable will help to find the biggest of them.

nums = [1,2,2,1]   nums = [2,2]

in python we can use <u>intersection</u> function