```
300. Longest Increasing Subsequence
 Given an array A of size N
 i \in [0; N-1]
LIS (i) = length of LIS ending strictly at position i
A_{i} = A_{i} = A_{i} = A_{i}
        [1+max(L15(j) for j ∈ [0; i-1], f A[j] < A[i]), else
LIS(A) = max (LIS(i) for i & [0; N-1])
Naive aproach solution:
 A=[]
 lenght Of LIS (nums):
   n=len(nums)
   A = nums
   max Len = 0
   for i in range (n):
     maxlen= max(maxlen, aux(i))
   return max Len
αυ× (i):
 maxlen= 0
 for jin range (i):
  [i]A > [i]A + i
    maxlen = max(maxlen, aux(j))
 return 1+ max Len
Recursiveness
Exponential complexity => TLE
```