13-06 2024 Test-I sudok Remove element 1) Aim i an integer array nums and an integer us Parci somove all occurrence of val in nums in Place cells p1900 algon9thm. 1) Take an function and with nums and vales on 1) 10 arguments 2) Put the constant number as 'o' an 2) 10 3) of nums!=val then k=num and k & 5,860 3) incomment as 1. (K+=1) 4) Then notwood the k value. UP: (3,2,2,3), 4 w 0/P;- [2,2] Time complexity = O(n-1) sudoku board: Alm: Determine if a 9x9 sudoku board in valid on not-1) Take a function as sudoku with the arguments 2) Tot using for 100P take the stows and columns and its snange as 9. of board [i][i]=".". The garment number board is equal to bourd [i] Ci] 4) come out of the loop then of (axa boxes ofer) on (3x3 sub-boxes our seen). the network false 50) else netwow True.

3) SUDOLA WIVE APM: solve a sudoku puzzle by filling the empty cells Algon9thm. 1) take a function with arguments (like rum, value, 2) Take a loop floor ? in stange (a). then if board num [9] = 60 ard num (c.J. then oreturn false elso. 3) Take other loop consideration of mouse columns. n) then to take a 9f wop board Cij [i]=".". ), Valz s) tat put num as 123456 28901. then - if valid (nums, val). bowidCiJCjj = num. 00 of solver): return Come return false 1) count and say: Aim: To determine of saying and conversion for alget strung. Algorithm -1) talce a function with argunests (1960 cour) 2) Take a loop a n==1" then neturn the value of

3) Toke the length of mer number or the story Wake ER loop and an count+= 1 dre of PolevCleu) = Polev(leu(u+1)). elso: 1/P- n=4, 0/P- "1211" 3) Roturn For length Agm. An array of destanct anteger candidates and larget one integer then the sam of combination @ combination sum. that I guteger algorathm: 1) suppose the armay l'est as some candidate 2) select the element that of from the 3) Then the sum of combinations, is caused to target number. a) But same number can repeat/more times 5) And then target element came separately forom the list. 1/Pi- [213, 6,7], larget = 7 0/pi [2,2,3], [7]

a combanations sum II; Alm: dolerning The sol'u sel must not contain dipigate combinations. algoorthm: 1) Take a wronay 19st of candidates and given the target as an integer. 2) Then the combinations of array list must equal to sum onteger 3) Cike 1,1,6 fin this way the combination will be formed. u) Then eard the how many combinations same forom the l'est. 1/P: [10,1,2,7,6,1,5], tanget = 8 Olpi- [1,1,6), [1,2,5), G Permutations II; Am: Determine how many remutations occur forom a list. AlgooPithm .-Take an away of numbers as 'u'. 2) Then take the 19st how many times we Suap the number forom the cit. 3) Suppose hum: (1,2,3) then n1=3 became

w) then the make the anonay of can general (5) And they negult the Pist 1/Pi (1,1,2), dp: [[1,1,2], (1,2,1], (2,1,1)] 6) Maximum subanonayi-Alm: The subarray which hair the cargest sum and oreturn ets. sum 1) suppose take a lest of numbers. 2) Then double the list of avoing in different 3) Take a last with four numbers and fond the longest sum among there. 4) Return the 19st of arrowy. 1/Pi nums = [-2,1,-3,4,-1,2,1,5,4]