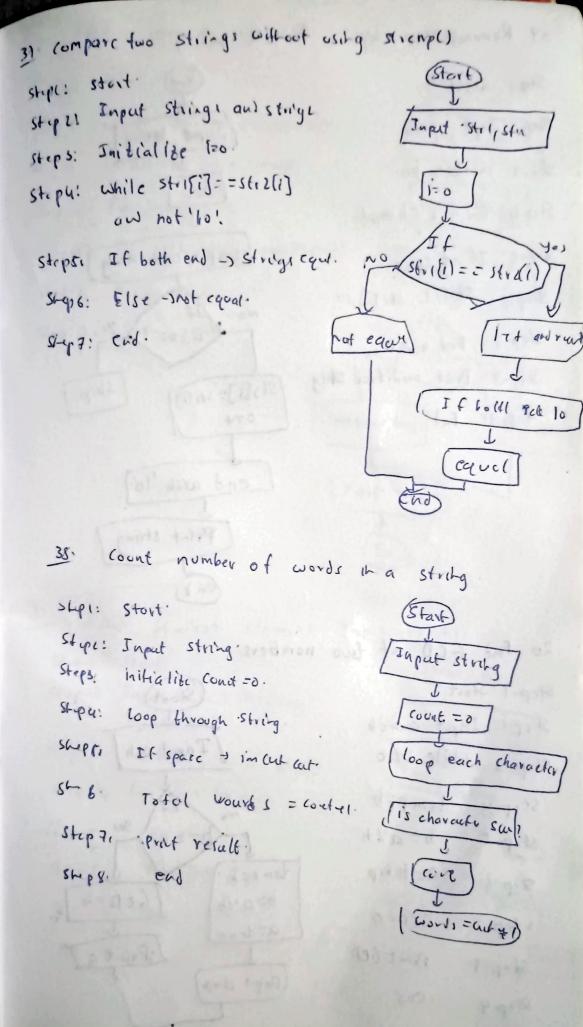
47. Fibonacci series using recursion (Stort) Algorithm Input n step 1 start Stope Define function fiber call fiben ders If n==0-) yelund step-4 If n=:01 -) return 1 yes step-s else return fib(n-1) + fib(n-1) returno step-6 Input number of terms n step-7 loop from o ton-1 print fib(1) No n=1 40 Stop-8 end veta 1 veturn fib(n-1) +fib(n-1) [Print fib(n)] end us. Swap two numbers using pointers. (start) Step-1 Stort Step-2 Input two numbers a and b. Input a, b A step-s use pointers +p and +g to a Saign p= &a, 9: 84 Store address of a and b tenp=dp Step 4 Swap using temp. stops. temp = 1p step-6 = 19 = 19 stay-+ of temp Prut 9,6 Sut - 8 Price swapped mil end

ub Function to check prime Stept: Start input n Stepz. Define function is pringly) call Isprime(1) Steps: Tfn (= (-) Yeturn false stepu for 1: 2 to n/2 ->4 steps, if ny i== 0 -> returnfulse Not Prin Step61 else return torue. stept: input n. 100p 1= 2 to m, Steps: Call is prime(n) and put hor 1 1 ny 1 == 0 Stepa - end not proh Retu Pru Print Yesult 47. Function to return maximum of three numbers Step-1: Start Step-1: Input abil. Step-3: If ash and asc -) maxing. lingul a,b,c Step-41 Fire it by (-) man = b. Step-s: Print map. (asb and asc Step-6 : End. max = q marze Pridrop

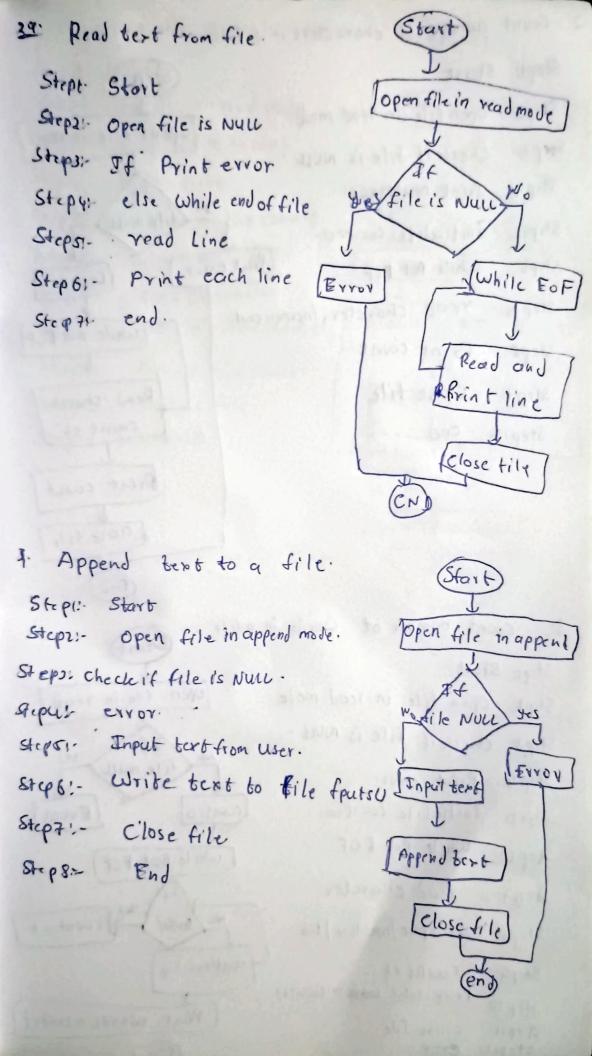
Agnamic memory allocation (raller) and sum of any (Stort) stept stort stepl: Input Steen input n Allocate memory dynate an= mallor(nosize of (inf)) Allocate memory stipu: Input n elements into an malloc stopse initialize summo Input array Step B: Loop through array + elements add elemets to som. Stept: Print SUM Somzo Free memory loop izoton. Stipq: End. Sum = Sum +andil pny son 30 merge two arrays Stort Step-1: Start Input ninz Step-2: Input size neard nz. Step-3: Input array [[ni], array I(ni). Input aruyi, ary Step-41 excele result array of sile hien! Create Pesult arry of Stop-1: Copy all elements of array into Stau nith, Step-6: Copy all elements of and Copy array 1 haf tu Step: Print Merged array copy alvays Staps: End

check whether a string is palindrome. Stepl: - Start Step 11- Input String. Input string Steps: - Find length of string. Fird length Stepa: - compare stili) and sh(121-12) If mis match -) not palindrome. [loop iso to lence Stys: Step 6: - If all match -> Palindrome. Step 7: End. Stili]== Styllen-i-1] Not palindayed Could logg All mated end She count vowels and consonants ina stuy. Stort. steph Stepz: Input string. Impat String Step3: Initial ze vout o, conskero vowels= 0, conste= 0 Stopy! If vowel -) vowelstt. Else if elphabet ->confut. Ster! loop each choracter Stec 6: Priat vowels, con sonauf Vowel 1 shu 7: Fnd loustants ex



Find largest element in an array. Stip-Stort Except) Shope Input siven and over de. Jugat Manay sup-s Juilialize man = 011[0]. Step-4 for jiel to n-1; max = avr[0] theps If arilil > far - max-avili) 100p 1= 1 tonsty-6 Print mass Step-7 end No pro[i] mas (Continue loop) max = arraj Proly Max 21. Find shallest dement Than array. Stup-1 Start Input sizen and army Step-2 dements Input Marray st-p-3 in i bialize min = arrio] for inton! St cg - 34 [200 p i= 1 tonsky-5 If ansli] comin + 3-4-6 min=an[i] En [i] 2min Sky-7 Print min Min - 2016.7 SLy - 8 End

25. Linear Search Stept Stort step 2 Input Marray raw key Loop 1: 0 ton step-3: for i= o to M-1; stop-4: 2f and)== hug Sup-5, Print position of arr[i] = = keg step- 6: If not found brit bosch Loutu. sly- f: Print " Not food" step 8. End Prit "Not fout" 4/11 00 28-Birary Search Stepa: Stort. Input Sorted array , no and key. Set low: 0, high =n-1 Input sortal array, & Step 3 while low = highs Shy 4: mid = (now thigh 7/2 LowED StapPL high: n. If and [mid] zekeg stand Step 6. It hay zari (mio] - high = mid-p Step 7; love high else low = midel +1 Stoll mid = 1100 +40 4/2 35 not found & print "Not fe Qu q Jeia eal It has conting



4. count number of lines in a file Stept: Start step2. Open file in read mode Open file in wedd Steps - check if file is NULL Stop4 - Print error. Siegs. Initialize line count-o. Stop61- While anot FOF line Couts=0 Stop 7:-Yead character) While not FOF If 'In' - I live count ++. Steph Stepas Print line count. close file Stepio,-Stepion-END Prist line coun