40 Find the frequency of each charactering Myorith an Start Shor Input a string read instring stop-s Initialize an array frequest too. Initialize freg[]=0 Step 4 For each charater c in the String: Incremet freg(c). for each charder in Sup-5 Print charcles with this type String Step-6 end. Incremit tuy freg[1]++ [Print (charati of Iveque

41. factorial using recursion.

Step-2 Define a vecursive function fact()

Step-2 Define a vecursive function fact()

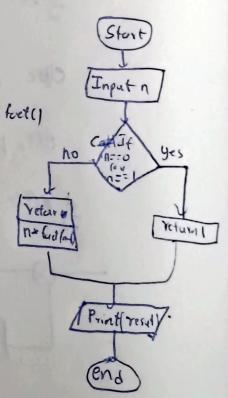
Step-4: else venturn not fact (n-1)

Step-5 Input n.

Step-6 Call fact(n)

Step-7 Print result

Step-8 end.



as him of away elements why pointers Stept Stort sty 2 2 pt se of away A Input n Ap) Input A cluste late anyon (Input array elements Arpy Initilia souso. Sumo, p=an slipt Use palter pto traver array Loop 120 to 13 Style Aid +p to sum for each SUM = SOM + "P eleulit Step-7 Prit Sum Print sun stup-s end 4. Reverse a string using reaursion. (Start) Stop 1 Start Input string sig-> petine function reverse (strain). stops It is = n/1 -) return y Call reverse (Str, O/en) Story Swop Strail and stran-i-1) Steps Call Yeverse (str, i-1, n) Steps Input String. Step-7 Call reverse (Lev D, leagth? Swap str(i) Estr (n-it) Stap-8 Print Yever sed Iting. Coll reach (she Step-4 end Print String

or Mind address of a carriable using pointer

stpti steat

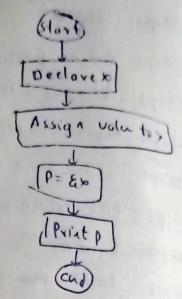
mps declare a variable x.

14 ps. Assign some value tix.

sign. Declare a pointer p= & to

sier Print address using P.

stips: end.



49. call by value and call by reference.

drole up K

Stop2: For call by Walle:

Strps: Pass a copy of varidal of fut.

Step4: Function modifies cops, Original unchanged.

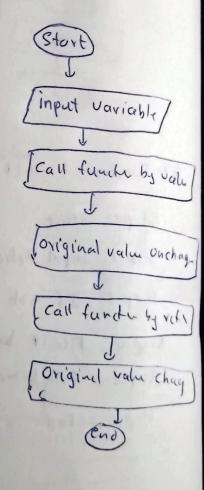
spec for cally reference:

Steps. Pass address of variably to fuction.

Stop 6: Function modifies original variable.

stope: show result with preft
stolements

Still end.



I find length of a string without using strengs. stept start stops! Input String steps Indialize contro (ount =0, 1=0 stopy while string (i) 1: 10' + - increment cant stes: Pint coul no (\$4.(i) == 'lo' Stope end Repeat cheu 31. Reverse a string Stepl: Start Ripli Input String Find lengt Steps: Find length of string. Stepu: Swap Charaderise: Stellige 18 loop 120 to lente Sto [len -1-1] Unitl'i Klentz Stepe: Print reversed String, [Surop Str (i) ad so [lu-Stip6: FW. (Proht Yeven's stuy) It copy one string to another without using strenge strenge strenge string string intiatize iso intiatize iso iso string is sat strenge iso string is sat strenge iso iso string is sat strenge is in the string is in the stri

Stapp: Print String 2. Strilli] Strilli]

Herri end

36 (concatenate two strugg without Using Street()

Repeat Check

Step 1 Stort Step 2 Input String 1 and string 2.

Steps: Find length of Story!

to Strigt Storting for au

style. Add "lo" est end

position.

Step6 Print Yesull.

Step 7. End.

[Input Stor, stor]

[Find length of stor-ling

[loop 1=0 to lenc

[stor (len ri) = stor 2[i])

[Set stor [lent-lent] = 1/0

39 Remove all spent from a trela 1 pole. Step & Japt storing Sta-3 initidity for Step 4: for each character: Loop i Over Storley sups If not space 111, [i] 172 - [i] 182 Step-7: End williso. Jug-S: Rut meditied stug. Sty [] = Sty [i Sy-9: Fal end with 'ld Print string 20 Find GCD of two numbers. Start Step-1 Stort Step-2 Input a and b Input a,b short while by o Stepy temp=b Step-5 b= a/6 a=temp ten p= b Step-6 p= q.6 GED=9 GCPZQ step-1 a= temp Ant GCD Step- 9 (Rept cheb Chd Step 9

Se it d som of Arm (stort) and wat it . input hand army dudy Input injuray sy a unitialize summe Sum: 0 res for in to not. thy & win = Sant avrill) Loop = 0 601-1 Sept Rivt Sun Sum = Sum +ari (17 Sign End Prict sum 24 Reverse an array Stort Stept: Start (Input narray Stip- 2. Juped nand aring click Kp-s. Initialize 1=0, j=n-) Step.4: While icj: Step-se Swap ari [i] and ari [i] X cg - (: = = =) j --Step-7. Print reversed alogs Prit array sugpan(i) stops, end avvil

Stepn Glart

Stepa:- Open file in write mode using fopency

Step3: Check if file is NULL

Stepu: If case of evror Print error

skps: else-) File eventred successfully (Ervoy

steps: clare file using fclosec)

Step 7: end

28: Write best to file.

Step 1: Stort

Step 2- Open file In write mode

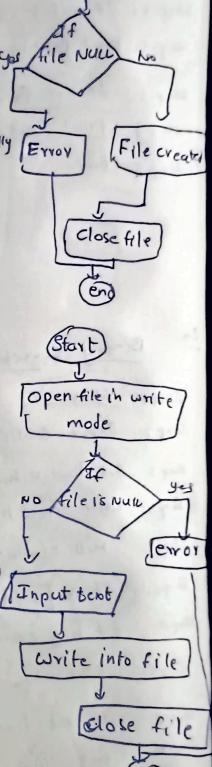
Steps: Check if file is NULL.

Step 4: 27 Rint error.

Steps- else write text using fputs()

Step-6: Close file

Step-7: end



Open file in write

mode

2 count number of characters it a file (Stear F Stepl: Start. Stepz: Open file in read mode Sopent file in read Stepsi Check if file is NULL 54.041bring you servor. file NULL Stepsi Initialize contio-Prht error (Count = 0 Steps: While not EOF read chareter, increase cout. Stepti While not for Steps: Print count. Read - chorch Step9: close file countyt Stepio: end Print count close til count number of words in a file Styl: Start Stope Open file in read mode. (open file in read Steps. Check if file is NULL. file NULL Stop4: Print error. (count=0 EYYOI Initialize countro. Stys 51 While not EOF while not For Step 6: read charcter Stop7: count + + Spede/ If space/new line / tab Step81 continue logo Stop9: countet Print total words - countil Stop 10. words = contyl close file St cp 11. end (Phu) stopil: