Hullman Encoding Test file Comprenion

cubat is made?



coolain: a charachter ib frequency and a left and m and a left and right Politer to other child node.

what is a pointer: A. value which weten to address of an object ej: a is a variable fa is address of a then P be powder of a ie, P= 2a; k; develorere 110, *Ra = a

cubat is short anin-heap?

Contains: size; not of element in heap (confue cherchter)

Nobe ** array; here array is a polisher] which point to other node pointen I g: min-heap: size = 5

-> ie, away is a pointer which Poinh to a set of pointer of type Node*

Before we continue;

consider a text lile, open usy FILE* and a Pointer to beginning of file is provided It's own along each charcher to obtain hyery

27801 = 3200 8200 have 5x rode ier \$800 has 5 [1]
and a, b, c, old e c [2]
ore pointers (Node*) to each node of unique charanter.

court-freq - freq. [i] for each home cher i read

tr. it 'a' is read the ASCII of a 10k be 37 ance they log [37]++ -: hooly bregi [0] = 0

to lorm charachter array and indee

conteo;

i run from 0-0 255 : | Aregi [i] > 0 append freq [count] = freq [i]:

charafteent] = (char) i; : if a: shime, b: 3 hime, d; a kins Cocst ++

He freg = { a, b, d } Charalm= { 5, 3, 9 }

Now min-heap to form nodes and allocate all modes is a oft mensy lowhim. (pointer 8/3/936 lowhim-te)

Should on in heapt create heap (freq, character, coent) Short min hoop ainh cop = (Short (hin heap") mallo c (size of (Smort min-heap)). tupe of value

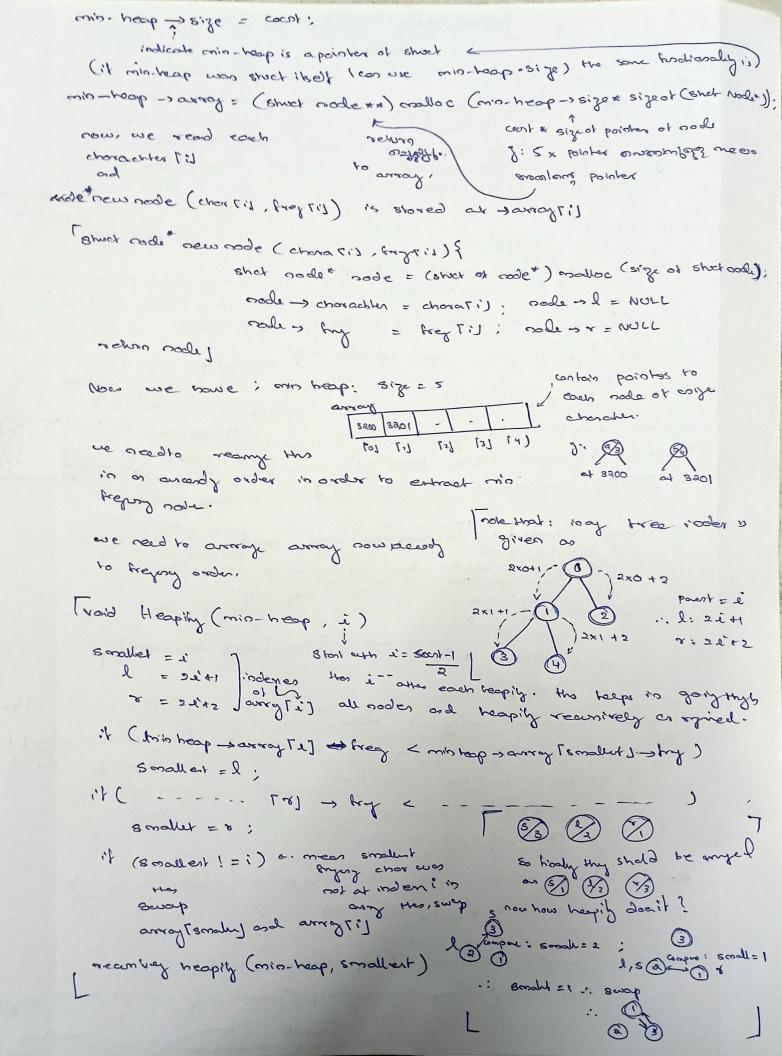
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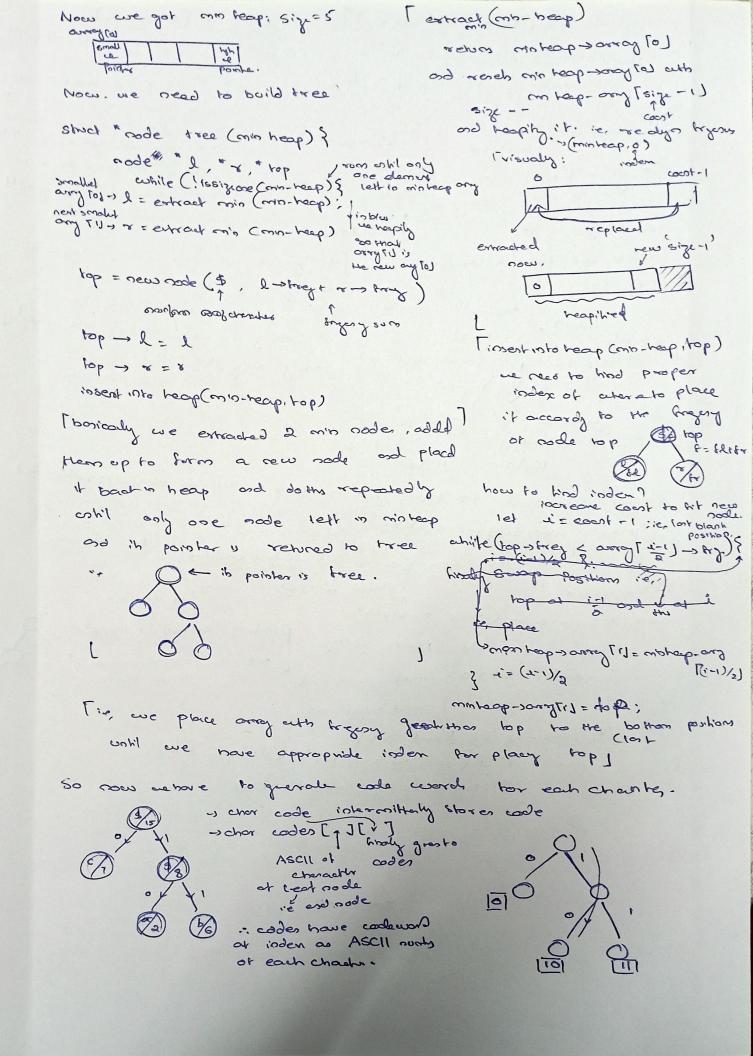
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solve on on-heap long

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on pointer of the control of t





ooter it (+see)) roid quak code (1 rea, code, code) } restor sure course il (il and is now to added to code tree - lis a pointer valo and cook gres to codes [ch][] of a new rode esteril an end node and value, 11 (20- cort) 1: To are all covided YES il(meo -> m) if (i) near sure rus. for; (1000 -> 4) len - sklen [coole) it all somere along all resplace code [len] =0' nodes reunvely. codeTeens=",1 code [les 4] = 10' Tady to to sent isden doesn't Jerende code (tree -, l, code, coder) really do on good into as it is not conidered on a real chacking code read = "lo". 3 (!land!x) (! (!land!) (!) (!land!) (!) (!land!) (!) (!land!) (!) (!land!) it early replace while recordly covid alog the foll Now just wead isp tile and obtain int ch = JASCII valu and Decomprenson:

| pointr to read with order data type

void decomprenson (tree, opphile)

As pointr of file more alog [end we replace whent it read bit = 0; what = cent -> 1

bit = 1; ement = cent -> x il (! cont -> l and ! cont -> r)

Print (comt -> character) to decorpe I he. and reset politi it, counset = tree

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