White board 8

Merging linked lists White board 8

Problem Domash

o lake 2 linked lists as parameters into a function to zip the lists to gether & return a reference to the single list head.

o Work to keep O(1) space o all previously written nethods ovailable Visual ListA news 1->4->7->tail ListB hed > 2 -> 3 -> 6 > tail cenariol - vist A. sizet cenario 2 - vist A. sizet vist B. szize Scenario 3 - ListA. size = null Scenario 4 - Lists A&B empty) Why -> 2 -> 4 -> 3 -> 7 -> 6 -> bil A nodel > B node \$> A mode 1> A 1->7
B 2->4->3

Higorodhus · check if both Vistsavempty volum " empty Usts" · chieck if eighter list isempty return non empty US+ unchanique · check if list A. size!= USB Size - modify main method acording o if with list sings == instatiat new obray list 1000 A to observen nodes in num Loop B to oddnowles

finally referen new leto Spring include "had @ start 1 > "in between each _ & uxu at end loopethrough LL unile (LL size ≥0) string response
= at "+ this.data return wheat >"+ verponse +

Big O(N) time - surerais

Big O(i) s pace - one roust

linkedlist

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but thats

public class mengelists (linkedlist list A, Linkedlist list B) & list A, Linkedlist list B, size(); int a Size = (list B, size(); string | (nt b) Size=(list B, size(); string | (a size=0 \$7 b) size=0) & response (f (a size=0 \$7 b) size=0) & return (list save | list save) & return (list save)

if (size=0 11 b Size=0) & while(a size > 0 11 b size > 0) (osige to) a ["+ all. adata+"] >! astze ++) } retur current tiroty (1600) & String crindB= (1000000), & String crindB= 1 1 1 bil. sizet , " -> 11 3 return current Brod · to Sige tt;

1 (a Styc= b Size) & int index string merged string = new string (19)

Wile (a Size 70) & mergstring=astringlimber) + "b string(Index); index tt; 3 Kethar Whead >1 + mergestring +
1>tail"; // test to suif merge 21 String, length= 11 asize + brize return merge Stringet (assigt) &

int cout=0 while (a size=boge) } Mergl dring = all Eunit 2 + ble [cant]; 35,000 head > 4 + merge String + 3 +"] > X" return

Merse if (body) 2 int nober =0 whilelosize == a Size & merge String = all [noder] + bell noders; Stry + bil [bl. 33 2 noder] June class