Exam Stuff

2/21/17(1)

Spr16 = 60% Spr17=47% 727

1) ADVICE: WRITE 3 PRACTICE

PROGRAMS A WEEK!

COME TO CLASS ALL THE TIME (MINUS EMERGENCIES)

2/21/12(3)

| Linked List  |
|--|
| 11st ->/3/7/x)   |
| strict node ?  |
| Struct node * next;  |
| (1) Add to Front of Structural Changes<br>(2) Add to Back Sym (harder) |
| (3) Print Non-structural (6) Add in order 3 (easier)                   |
| (5) Sum all values of (6) Count freq a particular #                    |
| D'Check it sorted  |
| 1 Delete /   |
| 9 Reverse  |

(ptr -) date == ug(ve) restt; ptr = ptr->next;

int is Socked (struct node + ptr) & NULL ptr emore

if (ptr = null) return is NULL) & NULL > sonathing

if (ptr > dark > ptr > new + > dark)

return 0;

ptr = ptr > next;

for (int i=0; icn; it+) }

return 1;

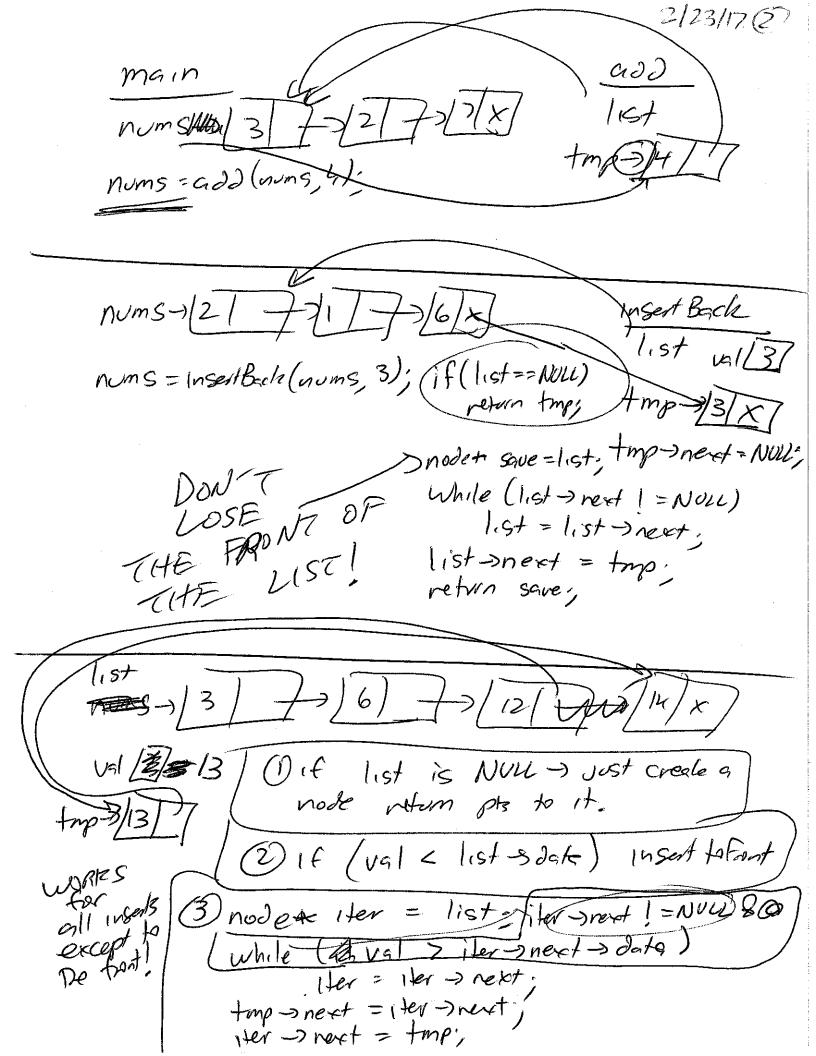
return 1;

2 (21/17 (2))

| Linked Lists   |
|--|
| Wadd to front 6) circular LLS                                  |
| Exadd to back 7) doubly LLs                                    |
| Bygod in order   |
| W) detete  |
| 5) reverse   |
| 11st >12/ 7/3/x/   |
| 11/1/47  |
| node +mp= malla(S12201 (01802))                                |
| U create new node top- next = list;                            |
| 1) link its next to return top; list                           |
| front of the excisting   |
| 6) return per to rew front.                                    |
| main   |
| node+ nums= NULL; nums -)[3] [3] [1] [1] [1st                  |
| is inc = ald (sums 4); CATO THE add TV/CITY                    |
| the printer nums? NO   |
| list is limited to changing values in nodest changing next pts |

nodes.

11



2/23/17 (3) retuct Delete 11st 420/6/1 tf (Tist == NULL) return NULL; (1) delete 6 (Goot) ,f (de|val = = list -> date) } node \* retual = list > next; nums = delete(nums, 6); free (list); return retural; (2) defete 5 (middle/end) node + iter = list; while (Her-rest! = NULL 86 deluct != Her-rext-dete) iter = iter = next; node a freept = iter = rext; Her-react = freepts->next; free (free pts); return list

Linker List Reverse

[1st-]3[7]2[7]5[7]X

rewrsively ([3]X], ([2]7)[4]7[X]

Pewerse rest list

Pewerse rest list

(1) Heroke to end of tmp-17 + 15[7]2[X]

Pewerse list

(3) -12 - 12[X]

(4) -12[X]

(5) -12[X]

(6) -12[X]

(7) -12[X]

(8) -12[X]

(9) -12[X]

(1) -12[X]

(2) -12[X]

(3) -12[X]

(4) -12[X]

(5) -12[X]

(6) -12[X]

(7) -12[X]

(8) -12[X]

(9) -12[X]

(1) -12[X]

2/23/17(4) inked List Reverse Herrine O(n) prev Ana/6 nexter (nextftr 1=Nouss In 1000 next Ptr = next Ptr-> merge (node + listly node \*

## Linked List Vanants

1 Circular LL tmp - 3/1/5 front -> (2/7-)/6/7>/3 if iler-prevot == fort Aback of list writing insert defective end of De list If inserting into the frant or the exad some changes have to be made I Her to end list, reported the end to the new fort. Her -> next = tap; top smeet = front; refun fronts (2) Doubly Linked List 18 front -> | x 16 721 () won't lose list int dates Dannoying to maintain more ptrs Street nodes

vert?

Struct nodesk

CDS Athsts > 2/23/17 (6)