JOEL NINAN JOHNSON IBM19CS199



7/12/200 LAB-7: STACKS AND QUEUES USING SINGLY LINKED LISTS Q. WAP to implement singly linked list with following operation a) Sort b) Reverse () Concatenation d) Starts & Queues. sort () } struct node * ptr = * head] struct node # temp = NULL & if (head == NULL) return else { while (ptr != NULL) } temp = pbx -> next while (temp! = Nuc) } if (ptr > data > temp > data) 1= ptr-) data phr -> data= temp->data

classmate VOUNTED MANIN JEST 1BM19 C9199 7/2/2020 reverse ()} Struct nude * prev = NULL struct nucle * next = NULL & Struct node * ptr = * head while (pby 1 = Null) } next= plx - next ptr > next = prev prev = ptr ptr = next *head = poer 2 oncatanate (struct node * ptr 1, essent node * ptr 2) if (par 1= NUL le ptr21= NUL) if (ptr1-) next == NULL) else ptr2 > nent = ptr2 ptr2 ptr2 > nent = ptr2 ptr2 ptr2 > nent , tr) 3 obse { print > " Either & pto 1 or pto 2 is Now" } struct node * concat(struct node *starts, struct node *starts) Struct nede *ptr if (8tax+1==NUU)} start1 = start2 return start1? if (8 tarta == NULL) return start 1

ptr = Stast1

while (per -> next 1 = NULL)

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= 3/2/202	A safe	
	pter = pter -> next	
	ptr-next = 8 taxt2	
	return garts	
_	3	
	de la la	
_	push (struct hode **head, int & new-data)	_
	gbruck node * new_node = (struck nucle*) malloc (size of (struck	rude)
	New Mar -) taller - New - we	
_	new_node > nent = *head *head = new_node	_
	" Wasac - rew _ repair	_
	porcis	
	alound - made * Nex	
	If (head == Null)	
_	printf " Lift is Empty")	,
	elses	
	plar = head	
	head = ptr -> nent	
_	free (ptr)	
	f 3	
	reg Engueue (Item){	
_		N:
	ptr = (struct node to) malloc (size of (struct node)	H2
_		/
	por -> next = NULL	/
_	11 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	it (head == NULL) Read = ptr	
	head = ptx	/
	2	

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