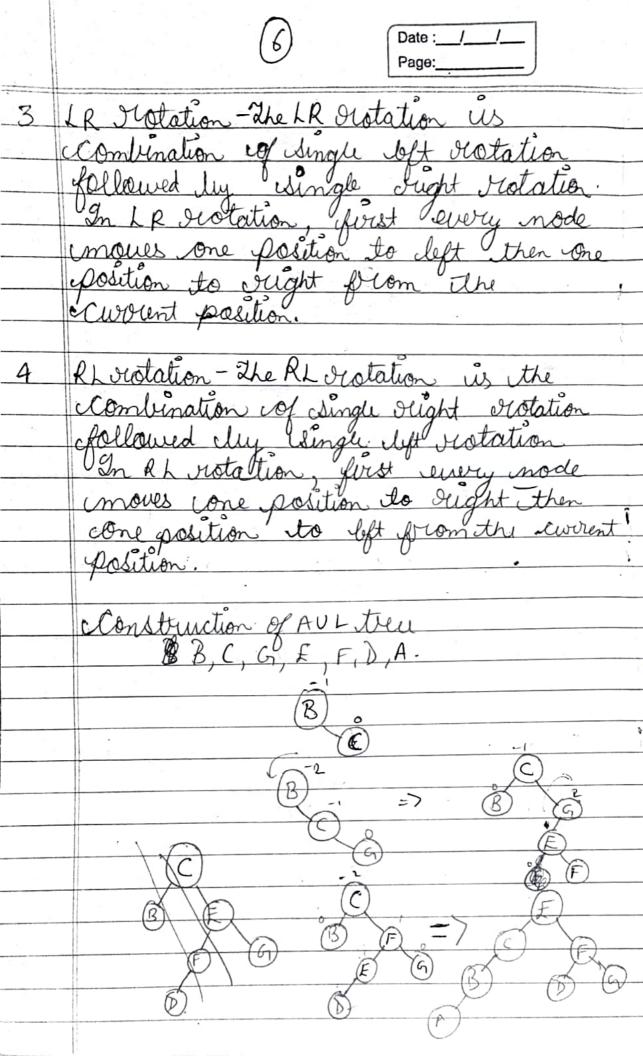
Date :__/__/ Assignment A [-100:100, -5:50] 0-1 Base address = 10. Sign = 4. A[99,49] = BA + Sye [no. of olum (i- lb,)+ (j-lb.) = 10-1 4 [56(99+100)+(49+5)] $\frac{1}{10+4}$ $\left(\frac{56\times199+54}{11144+54}\right)$ = 10 + 4 × 11 1 9 8 =10++44802. The waver to asymptotic con notations Big Oh notations (0) Dominga Motation (-2) Theta notation (0) Big Oh notation - Big Oh instation its can casymptotic instation ithat incasures the performance of can algorithm by simply sprouding the colder of growth of the function

The crotations cused in Evaluation of withmetic enpression cusing prefer cand pastfers forms our I Bufin - operator < operand> < operand> < operand> Postfin - < operand > < operand > operatore
Eg - AB+, AB+. (d) The chashing att functions based on warious mithods by which by walve is found wee
1 K m ed 10 mid Square method Tolding method. (c) Nodes = 7. Heigh man height = n=10. 2ⁿ-11= 2¹⁰+1. = 1025. I tal no. of moves =

Date :__/__/_ (3) is the cone in which some path enists detwen every two voctions. There are no lisolated chodes in connected agraph. Strongly Connected graph-A graph is said ito the strongly Connected if to every other while Infin - A*(B+D) (E-F*(G+H/K). Postfin Symbol Stack AB+ AB+* A8+** AB+*E/ AB+*E/F AB+* F/FG. -4(+ ABT +EIFGH.

Date :___/___/__ -*(+/ AB+* E/FGH. AB+*E/FGHK+*-Postin = AB+*E/FGHA+*-Dri Torte Construction linked list is courtable because it is the impost cand it is easily accessible education it. 2) The application of sparse matrin are-The sparse matrices care cusful for Computing large scale operations that colense mattures can not handle. 2 2t is used in ord yolving partial edifferential equations. Section-B 0-2 AAA [5:30] BBB [-3:10], ((([1:8] (a) Length AAA= 50-5+1. (b) Lingth BBB = 10+5+1 (1) Lingth (((= 8-1+1) = 8.

Date :__/__/__ Base = 300. w = 4. AAA[IS] = BA+ w (u-lb) = 300 + 4(15-5). = 300+4040 = 340. AAA[35] = 300+4(35-5). = 300 + 120. =420. AAA[SS] will not have any location cin avoray AAA because the tength creef the avoray is At greatest element in an avoray is So. In voidor to ibalance acture, there Il rotation - In Lh rotation every node moves one position to left from the lewerent position. RR stolation In RR violation every node moves one position to right from the covert position.



Date :__/__/__ Helmary search there is a dinary true. It can be deplesented in which each made is can cobject. In caddition to a key for field, each node contains fields sight left, right and P; oright child and its parent resp A non-empty linary search true satisfies the following properties-Guerry element has a key and no Aus elements have the same value. The Reys, if any, in the left subtree of (b) Stoot are smaller than the key The Ruys, if carry in the dight subtree (c)the keys in the node. The left and vight subtree of the (1) ocot are also binary search true.

Date : __/___/__ Marious operations of BST au-I Searching- Searching for ca adata in

BS T is much factor than in average

Or linked list "Theo" The TREE-SEARCH colgo. Sewiches the true root at n for a mode yerhose by value equals to k. It outwers in pointer to the mode if it exists otherwise NIL. Deaversal - All the toraversal operations care capplicable in & BST. The two Unorder traversal on BST gives the Sorted wider of data in cascending Insertion- 20 unserd ca men value w into a BBST, we use the procedure TREE-INSERT. BST depends on the no. of uts whiteen. Construction of BST=45,32, 90,34,68,72,15,29,30,66,11,50,10

Implementation of stack using Linked List # unclude / Stdio. h > estruct mode unt unfo; struct mode * link; struct mode + top, Graid main () (word Ocates). Word brawye(): Groid Rush (); word fop (); vieate () & reprint ("Stack is:" ctraverse (): & pop (); push (); Print ("After push the climent in the stack is:") printy (" After pop the element in the stack is" word Oceale()

Date :___/___ struct node * str, * cpt; char ch. pti = (structcrock*) malla (sye)(structrock).

county ("Input first info");

cocant ("I.d" & pti - s info);

cote - s link = NULL; cot = (struct cnode*) malloc (she of (struct node)); escant (" of a sept -> info); ccpt -> link = ptic; print ("Dres < YIN> forcomore information");

Sh = getch); Lowhile while (ch==(y)) word traverse (struct mode * pti;
pt printy (" Traversing of stack: ");. uptil = top; eprint ("o/d", ptr -> cinfo),

ptr=-ptr-> link;

Date :__/__ groid push () ptr = (struct mode*) malla (sing (struct node)); Print (" Overflow" point ("Underflow") pti = top; top = ptri -> clink; 3 free (iptr);

Binary Dree. Gnorder-DBHEAIFJCH Buorder-ABDEHCFIJG. Section - C loubly Inked List - The doubly or two way node and the vother pointing to the dist, all nodes are timber linked together ly multiple links which chelp in caccersing both the successor and predecessor node for any whiteary



Date :__/__/__ Page:____

Beogram to coleate a doubly linked list. # unclude < stdio. h> # undude < calloc. h> struct mode unt unto; struct mode * lpt; struct node * ript; estruct made * first; Wester, igetch (); word create() struct node + ptr, * cpt; Char ch, ptir = (estruct inode *) imalla (size of (istructinode));

printy (" Input first inode;");

scanf ("1.d", & ptir -> info). color - lpt = NULL; first= ptri; ept=(Struct moder) vmallor (Sze of (Struct node)).

Date: / / Page:____ scanf ("old", & cot - info);

pto - sept = cot;

cot - lot = pto; iptr = icpt; prints ("bress Y/N for more mode"); ch= getch();

centile (ch == 'X');

eptr → orpt = NULL;

