BINARY SEARCH TREE Hinclude < Stdio h7 Hinclude < conio. h > Hinclude < otdlib. h. stouct node. & int upo; struct node \*slink; Staut node \* llink; typedif struct node \*NODE;

NODE getnode() X = (NODE) malloc (size of (strucenode)); if (x==NULL)

? pf (" nem full\n");

exit(0); setuen X, void free (NDDE x)

8 free (x); 3 NODE insert (NODE root, int item) 3 NODE temp, cue, prev; temp = gethode (); temp -> 8 link = NULL; temp -> Ilink= NULL; temp -> info = item; if (DDt = = NUC) return temp, prev = NUL; cue = root.

	SURYA Gold
	Oata Page
	While (are = NULL)
	8 bren= are;
	Gue = l'étem (cue > info) aue slink: aue > vlink;
	if (item < prev >info)  prev > Wink - temp;
er man er stelle men stattligt framste er til statiske stamta står krest av statiske statiske	prev - link-temp.
	else.
	prev - rlink = temp
	retuen root;
	7
	void display (NODE root, inti)
	<i>Ş</i> '
	uil je
	il (ropt 1 = NUU)
	und jo; if (root != NUU)
	display (root, > blink, i+1);  for (j=0, j < i, j+t)
	1 10 0 Ciritt
	D8 ( = 0, 1
	Pf ("-1.d \n", soot >info);  display (soot > llink, i+1);
	Pf ("-1-de In , SDOT = ) INTO)
	display (800t Tlink, 1+1),
	4 1 0
	Y /
	word browdes (NODE root)
	S if (xcot = NULL)
	2 COURS
	P1 (".1.d 12", xoot > info);
	1 a la sue my
	preorded root > link);
	preoxder (root > slink);
	J

SURYA Gold wid postovaly (SEER - Clintop (NODE root) if ( Not! = NULL) Postordes ( root -> llink); postorder ( root -> rlink); print (" 1-d/t", root-info); void inorder (\* NODE root) invodes ( root -) line); inordel (root >xlink), void main (). ? int item, choice; NODE 500t=NULL, \$ for (;;) of [" 1. insert 2. diep 3. pre 4. post 5. in 6. exit"); Pf (" Spites your choice");

Af (" . | d", & choice);

Smitch (choice) p I use 1: pf (" Enter the item'n"); s[ ("- (-d", &item)) root = insert (root, item); boeak;

Carl 2: display (root, 0); break, care 3: procorder (not); break; case 4. postordes (noot); case 5: inorder (root), boeak; default : exit (0); break;