Itili Agadan - salt bagii Listeye struct node ? int data; struct node right; left; 3; typedec struct node \* NODE ; void treetulist (Node nout, node & prew, rode & head 1 3 14 (1,000+ ) return 0; tree to List ( noot - sleft, prew, head); 100+ 7/6t+= bren; if (prev) & prev-oright = root; else head = root Node right = root sight; head a left = mot; root-snight=head; (town=v sod) treeto List (right, preu, head) 3 Node treetolist (Mode noot) > Node . preu = NULL ' Node, head = NULL ; tree to List (root, prev, heat) 1.3 return head; 3

Kuyrukton-s Itili Agaca Aktorma Struct Kuyruk & Jut juto ; struct kuyruk \*next; 3; typedet struct kuyruk \*Kuyruk PTR; struct tree { int info; structuree tleft; structtree \*right; 3: typedet struct tree "TREEMODEPTR" vold kupuk to tree (kuyrukptr "bas 1 KUYRUKPTR "Son, TREEMODEPTR" + reePtr 2 Kuyruk current Ptr; int degen ; cruent by = "pas; while (current per) = NULL) { deger = removel bas, son); insert Tree (tree ptr, deger); currentptr = "bas; ??

sayıları Agaca yerle, brug Stroct vodetype & int into; struct rodetype \*left) struct node type \*right; 3 typedet struct rude typ. "MODE PTR; main() NODEPTR P, tree; NODEPTR PA: int number: " scant ("old". Anmber) ptree=make tree (number); while (scant ("obd", &number)!= EDE 18 b=d=btues; myle (unuper ! = 6-7 juto 88 d | = vintr ) & 10=9) it (uniques to sinta) 9=p-left; else 9=p-orignt; It (number = = b - sinto) { print ("%d" is a diplicate in "number); else it (number (b-zinta) set left (p, number 1) else setright(p, number); 33

```
ygin (stack) ton tek bagi.
                         list, aktorma
Struct node ?
  jut juto ;
struct node "next; 5;
typedef struct stack ?
 int top;
 int items [103; & stack)
 typedet struct node "NODEPTR",
void insert CNODEPTR p, int x 3
& NO DEPTR 9'
it (b = = NOTTI) S
?printf("gecensizeklane"); ext (0); }
9= getnode();
9 -> info=x;
9-Jnext=p-Jnext)
p-1nex+=9:7
```

McIlli Agacton - sigina (stact) aktorna typedet struct node ? in+ data; Struct node 'left anight; 3 node; void mimor (node "noot) { it (Loot = = HAPPY ) Letrus ) node \*temp) node & g[1003= {NULL]) int i, 7 =0) while (root) 5 temb= Loot -> lett > noot -sleft = root snight; root oright = temp; it (200+ -7/6t+) 9 [1++1] = root > kf+1) P It (noot suight) (+4 ppro +000= (++ i) p root = 9 (j++ 3) 33

```
Agaan Tim Digimenhoteti elemon
sayısı toplomi
jut waju(); }
int Tona (NODEPTR tree) {
jut tablow=0; it (thee 1= MATT) &
Tora (tree -)left);
Toral tree pright;
toplom ++; 3 3
return toplom 3
Int main () { NODEPTR tree }
int elemon;
elemon = Tora(tree);
print. fl"elemon sayisi = " " olud "elemon );
return 0; 3
ILIII Agacin max elementi Bulen Prog
Struct tree Sint data; struct tree "right, left; 3
* ptree
int maxsayi(ptree "ptree, int max) }
it (btree == uni)
uetrau wax;
it (btues -> gata) wax)
max = ptree - >data;
max say; (ptree-) left, max);
 man sayi (ptree-) right, max);
return max; 3
```

```
Itili Agacin Top. Elemon sayısını bulan Prisq.
Struct tree? Int data; struct tree "right, left; ]
*ptree
Int toplom?
int topiomscy: (1) tree *ptree) ?
 toplomsay: (12+ree->lef+);
toplom + +)
toplom soyilptree - >right);3
Ikili agacin sague sol kollarının sayısını
ayriayri bulan prug.
Struct tree sint data; struct tree * right, left; }
a ptree
Intsol; int scq;
int derinlik (ptree "ptree) {
if (ptree = =null)
 return(0)
int right = derinlik (ptree-) right);
int left = derinlik (ptree - ) left);
 sol = left +1
 sag=nigh++1; 3
```

```
Matrisin satirini Dizide Siralama
int main() &
int 1=0, J=0, k=0, temp, min)
int motris [N] [N] = $15,3,23,14,2,53.16,1,235;
IN+ d CHJ!
prints ("Mat, boyutu: "bd in kacinasatiri siralamak: ", N)
ecout (0,69,18 1);
for (i=0; i < N; i++ )
d Ci)= matrisck-13. Ci3:
for (1=0:14N-1:1++) }
 min = i
for (J=1+1; JLN; J++)
 if (9 C23:59 Cwin 3.)
 min = 5)
 it (min ! = ! ) &
temp = d Cmin ];
 d Cmin 3 = d Ci );
 d Ci3 = temp; 33
printf("InIn sinalonmis dizi:");
for (1=0:11 < N ; 1++)
 buintt ( , 0/09, '9 C!));
butt(" ");
 return 0 ! 3
```

```
Tek bag 11 Listeyi Tensine Ceviren
Struct node Eint into; struct nude "rext 3 "5
void courris
struct node *ptr1, ptr2, ptr3;
if (s = = NULL)
prints ("bos");
14 (s-)nex+==null)
brist ( "tex elemon! ")
p+r1 = 51
ptr 2 = ptr1 - >next;
ptr3 = ptr2 - ) next;
ptr1 - Inext = null;
p+r2-)nex+=p+r1;
while (ptr 3! = NULL) }
ptr1 = ptr2; ptr2 = ptr3;
12+13=12+13->nex+;
ptr 2 - Inext = ptr 1; 3
5=ptr2; 3
```

Ikili Agactan - Tek baglı Listeye

struct tek baglı {

int into;

struct tekbaglı \* rext; 3;

typedet struct tekbağlı \* TEKBAĞLIPTR;

void tree tolist (AGACPTR trePtr,

TEKBAGLIPTR \* listPtr,

{if (tree Ptr ! = NULL)

{tek bağlıypekle (listPtr, treePtr->info);

tree tolist (treePtr->left, listPtr);
}

tree tolist (treePtr->right, listPtr);
}

```
Higaston kuyruga aktorma
Struct tree {
 int juto;
struct tree "left, "right; 3"
typedet structtree "TRESPTR"
Struct kuyruk & int info;
struct kuynuk *bos, *son, *next; 3; 
typedef struct kuynuk *KUYRUKPTR
int agraelemonsayisi (TREEPTR* treeptr){
if ( *tree Ptr ! = NULL)
  return (1+0900010mon say 151 (*treeptr +left)+
          agaceleman sayisi ("treePtr 3 right);
  elee ustrust; 3
int kuyruga Ekle (KUYRUK PTR abas, xson, int deger) &
Kuyruk newptr
 new Ptr= (KUYRUKPTR)malloc (size of (struct kuyruk)
new Ptr -> Info = degeni
new ptr 3 next = NULL)
 if ("bos = = NULL)
      "bas = newptr);
 else (*son -rext) = newPtr;
                                        *tueshtu) &
        "son = newPtr ) S
inf tree to queue (Kuyrukptr bas son, GAGACPTR
while ( "treeptr ! = NULL ) {
Kyrugaskle (2 "bas, 2 "son, treeptr sinfoll; 33
```

```
int modul) s
AGACPTR + treePtr'
KUYRIKPTR " LYNKPT".
M+M
N = agacdemonsoy131 (& "treeptr);
 for (int i = 0; 1 LM, 1++) {
tree to Queue (& bas, & son, treeptr , info);
*bas = *bas +nex+;
"tree ptr = "tree ptn -snext"
33
```