

```
Odd Even linked list (leet code)
int les (Stauct node * head) {
  struct node *p=head;
     while (p!= NULL) {
    p = p -> new i
  relum 1;
 struct node * odd Evendist ( struct node * head) {
      if (head = = NULL) {
         3 return head;
       if ( Im (head) == 1) {
       return head;
   It suct node & p = head;
   struct node * dum = NULL;
   stand node XU;
   while (P!= NULL) {
     struct node *n = (struct node *) malloc
            ( Size of ( struct wold))
       n -> data = P-> data;
       n -> next = NULL;
```

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y ( dum == MULL) &
     U = dum
  else
      6 U-Trust = n
struct node xt = head;
should vide 40 = dum;
Hours - much = 0 x about trucks
while ( o -> mut != NULL) {
        t = t-> nest;
        If ( O == MULL) {
         Isrick-;
       2
    if (bus (head) 1/12!=0) {
       -1 -> dota = 0 -> dota ;
       t=t-) next;
    while (el= NULL) {
          t -> dot = e-> dot -
          */= if ( e->nut == NULL) {
```

e=e->newd; t= +-> nent; \_\_\_\_return head; Test Result head = [1,2,3,4,5] Output [1,3,5,2,4] head = [2,1,3,5,6,4,3] Output [2,3,6,7,1,5,4]

3)	Write a program		
	@ To constand Binary Search Tru		
	D Transverse The tree using inorder,		
entral la constitución de la con	postander & proorder		
	Display the elements in the tree		
Marie Control of the	It include (stdio.h)		
	atticulate (monjoin)		
	#tinchede < stdlib.h>		
	struct node {		
	int data;		
	struct node * left;		
	struct node x eight:		
. [	3.		
	struct node ++ + rue = NULL;		
	struct node * insert Element (struct node *, int);		
	Void forearder Terameral (struct node x):		
	Void inorder Traversal (struct node x)		
	void frast order Traursal (istruct node x);		
- 3,	void main () {		
	int option, vali		
while (1) {			
The second secon	faint (" m * * Main Mena * * \n");		
- freint [ " In I. Fused Element ");			
	frient (" m 2. Perarder Traversal")		
The standards	fring (" In 3. France Traversal");		
	prints 1" In 4. Postarda Traured ")		
	frint (" In 5. Display ");		

The second of the last second of	
frints ("In 6. Enst");	· Samuel Control
scary ("'/d", & option):	
Switch (option) {	
	T
Case 1: frainff l' In Enter value of the	
neconode: );	
scond ( V.d", Lyw);	
tree = insert [times (tree, vol);	
break;	
	<u>#</u>
lase 2: fourth ( In The alments of	
the tree in preorder traversel	<u>[</u>
are; \n');	1
freorder Traversal (tree);	
lereak;	7
Case 3 !	<u>}</u> =
point (" In The elements of the tree in	
inorder traversel are: In);	
inorder Traversial (free);	P.
lereck;	
ile is in instant quite in in	
Cose 4:	
prints (" In Two elements of the true in	
hostorder traversal are: In );	
hostigades ( to )	
Leroak;	
Case 5: frints (" In The elements of the tree	<u> </u>
are: In ");	
dicht thank it	

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case 6: cut(0):
 default in frutt ( Invalid what );
Struct node xinsest Flemant ( struct node * tree,
 int val) {
  struct node *pts, *nodeptr, *parints;
-fit = ( struct node x) malloc ( size of (struct mode));
  ptn->date = val;
    ptn->lyt - NULL;
   ptr->right = NULL;
    if (tru = = NUII) {
         tree = ptr;
         free sleft = NIULL;
       Trushight = MULL;
      pountft = NULL;
          nodeptr = tree;
      while (nodeptr != NULL) {
        parathty = nodepts;
            if ( val < nodepta >deta)
              noclipta = noclopts -> lift:
             cer.
           noclefty - noclepts -> sight;
       y (val < parents -> data)
             parupta => left = pla;
```

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paramptr > right = ptr;
void preorder Tenevisal (stand node x force) {
           if ( Ince ! = NIVLL) (
               fring (" " d 11", tree > data):
          freezeter Transcoal (tree > left):
         3
           preceder traversed (tree shight)
 void march Transport ( yeard note x level &
          if ( lace ! = NULL) {
             imarder Travernal (100 - left);
            fried (" Vel ) ! dru schole);
             ; marcher Toucesund ( 1 xee sought);
 Void hostorder Traversal ( attract node *tree) {
        if (tree != NULL) {
         hatorder Transmil ( Ince > left);
     posturder Lancoursel ( Line 201911);
       white years and it
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Company of the second control of the second	
and the second second second second	void disp (Strud node xtru) {
AND CONTRACTOR CONTRACTOR AND CONTRA	
	y (tree != MULL) {
The state of the s	disht tree > left)
	privile "/d 11", tree >data);
	disp(Iree > right)
	3
	O. N
	Output
	* * Main Menu * *
	1. Insert Element
	2. Prearchy Bound Traversel
	3. Inorden Transcusal
	4. Postardes Transceral
	5. Display Elmain
	6. Frit.
	(insukry)
	Enter the value of the newwoode: \$5
	Suite the well
	Entra the value of the new mode: 3
	3 Entra the value of the newwoode: 3
	(insuling)
	I Enter the value of the new mode: ?
	5 (displaying)
	The clements of the tree are:
	2 3 5 8
SAME TO SECURE	

2 (preorder) The elements of the tree in preorder traversed are: 5 3 2 8 3 (inverder) The elements of the tree in inorder traversel are: 2 3 5 3 the The clements of the tree in postorder traversal