```
#include < Stdio. R>
# include < stobool h>
# include < stol b. h>
 typedel start brazy-nale &
          int data;
         struct binary-node *lebt; struct binary-node *right;
   3 node;
  void issect (node ** soot, int d)
          if ( * 800+ = = NULL)
              (* root)=(node*) malla ( size of (node));
               (* not) -> left = NULL;
              (* not) -> data = di
             (+xoot) -) right = NULL i
            Che
                A (d = (soot) -) left
                   if (d < (+ not > dola))
                    else insest (& ((1 Not -) left), d);
                         inset ( L( (* mot > right), d);
```

```
void inorder (node * soot)
     : f ( not == NULL )
          relm,
     prote ( " " d" , root + data);
      inooder ( noot -) mg/t),
void preorder (node trot)
        f( not == Now)
            return,
        pontfe" of, d", 6 mot adala);
         preosder ( soot -sleft);
         preordes ( not -) right);
        postordes (node * xot)
 roid
          if (root == NULL)
              rehm:
          patorder ( not -) left);
           bostages (soot + night);
          point f(" bd", & nost >dola);
 3
 bool search ( node + root, int key)
         if ( not == NULL )
             ochm Palse;
         if (root -) data = key)
              selim true;
         ele
               ,f(key = soot > data)
             return search (root - left, key);
         whom search ( not -) night, key);
```

```
int main() &
   node * soot = NULLi
   int choice;
   int di
    Printf("1. Insert in BST In a. Pre Oxoles In 3. In Oxolers In 4. Postoxoles Ins. Seesch Inb. Ex. His)
     printf("Your choice: ");
    scenf (" of d", schace);
    while (choice!=6)
          switch (choice)
                         printf ("Enter element to be invested; ");
                                 sonf ("1.d" & d);
                                 inset (broot, d);
                                 point ("1,d insted in the free mi, d);
                                 break
                  case 2: pointf ("Preorder tradersed is: In");
                                  brearder (soot);
                                  pointf("m");
                                 brack
                  case 2: pointf ("Inosoles traveral is In");
                                inosdes (not);
                                print f (" /n");
                                breek:
                   Case 4: printf ("Post Order tooversed is In");
                                  postorder (most)
                    Case 5: printf (" Enter element to be southed");
                              sonf("1.1", ed);
                             if (search (not, d)) ?
                                       Printf (" Element Cound! In").
                            elie
```

printf(" Your next choice: ");

scent (".1.d", behove);

selim 0;