Assume each node in the binary search tree contains numeric values as their data field and it is represented using array data structure. Write a 'C' program to find the number of nodes with even number in the left subtree of root node from the binary search tree. Print -1 if there is no node found in the left subtree. Apply tree traversal to visit the nodes.

```
#include <stdio.h>
int tree[10];
int c=0;
int rootnode(int key){
  if(tree[0] != '\0')
     printf("Tree already had root");
     tree[0] = key;
int leftchild(int key, int parent){
  if(tree[parent] == '\0')
     printf("Can't set child at %d, no parent found\n", (parent * 2) + 1);
      tree [ (parent * 2) + 1] = key;
int rightchild(int key, int parent){
  if(tree[parent] == '\0')
     printf("Can't set child at %d, no parent found\n", (parent * 2) + 2);
      tree [ (parent * 2) + 2] = key;
void InOrder(int arr[], int start, int end)
 if(start > end)
 printf("%d ", arr[start]);
  if((arr[start]%2)==0){
```

```
int main(){
   rootnode(100);
   rightchild(120, 0);
   leftchild(80, 0);
   rightchild(90, 1);
   rightchild(130, 2);
   leftchild(110, 2);
   leftchild(65, 3);
   printf("Inorder BST: ");
   InOrder(tree, 0, 7);
   printf("\nnumber of even numbers in left subtree\n");
       printf("-1");
   printf("%d",c);
 PS D:\CS Lab\c code> cd "d:\CS Lab\c code\" ; if ($?) { gcc trial.c -0 trial } ; if ($?) { .\trial } Inorder BST: 65 70 80 90 100 110 120 130
 number of even numbers in left subtree
```