Print Root to Leaf Paths in a binary tree

```
#include <stdio.h>
#include <stdlib.h>
#define MAX 1000
struct node
{
       int data:
       struct node *left;
       struct node *right;
};
struct node *newNode(int data)
       struct node *temp = (struct node *)malloc(sizeof(struct node));
       temp->data = data;
       temp->left = temp->right = NULL;
       return temp;
}
void printPath(int path[], int index)
       for(int i=0; i<index; i++)
              printf("%d\t", path[i]);
       printf("\n");
}
void getRootToLeafPaths(struct node *root, int path[], int index)
       if(root)
       {
              path[index++] = root->data;
              if(!(root->left) && !(root->right))
                      printPath(path, index);
              else
              {
                      getRootToLeafPaths(root->left, path, index);
                      getRootToLeafPaths(root->right, path, index);
               }
       }
}
int main()
{
       struct node *root=NULL;
       int path[MAX];
       root = newNode(10);
       root->left = newNode(20);
       root->right = newNode(30);
       root->left->left = newNode(40);
       root->right->left = newNode(50);
```

```
root->right->right = newNode(60);
    getRootToLeafPaths(root, path, 0);
    return 0;
}
Time complexity: O(n)
Space Complexity: O(n)
```