1. **Write a program in C to Check if a particular customer account ID exists in the list using Linear Search.**

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int accountIDs[50];
    int n, i, searchID, found = 0;
    clrscr(); // clear the screen (Turbo C specific)
    printf("Enter the number of customer accounts: ");
    scanf("%d", &n);

    printf("\nEnter %d Customer Account IDs:\n", n);
    for (i = 0; i < n; i++)
    {
        printf("Account ID [%d]: ", i + 1);
        scanf("%d", &accountIDs[i]);
    }
    printf("\nEnter the Account ID to search: ");
    scanf("%d", &searchID);
    // Linear Search
    for (i = 0; i < n; i++)
    {
        if (accountIDs[i] == searchID)
        {
            found = 1;
            break;
        }
    }
    if (found == 1)
        printf("\nAccount ID %d FOUND at position %d.\n", searchID, i +
1);
    else
        printf("\nAccount ID %d NOT FOUND in the list.\n", searchID);

    getch(); // wait for keypress before exit (Turbo C specific)
}
```