

```

#include<stdio.h>
#include<string.h>
void main() {
    char input[100],l[50],r[50],temp[10],tempprod[20],
productions[25][50];
    int i=0,j=0,flag=0,consumed=0;
    printf("Enter the productions: ");
    scanf("%1s->%s",l,r);
    printf("%s",r);
    while(sscanf(r+consumed,"%[^|]s",temp) == 1 && consumed
<= strlen(r)) {
        if(temp[0] == l[0]) {
            flag = 1;
            sprintf(productions[i++],"%s->%s%s'\0",l,temp+1,
l);
        }
        else
            sprintf(productions[i++],"%s'->%s%s'\0",l,temp,l
);
        consumed += strlen(temp)+1;
    }
    if(flag == 1) {
        sprintf(productions[i++],"%s->ε\0",l);
        printf("The productions after eliminating Left
Recursion are:\n");
        for(j=0;j<i;j++)
            printf("%s\n",productions[j]);
    }
    else
        printf("The Given Grammar has no Left Recursion");
}

```