

LEX PROGRAM TO REMOVE LEFT RECURSION

```
#include<stdio.h>
int main(){
    int n;
    char pr[10][10];
    printf("Enter number of productions: ");

    scanf("%d",&n);
    printf("Enter productions");
    for(int i=0;i<n;i++){
        scanf("%s",pr[i]);
    }
    for(int i=0;i<n;i++){
        for(int j=0;j<10;j++){
            if(pr[i][j]=='>' || pr[i][j]=='|'){
                if(pr[i][j+1]==pr[0][0]){
                    printf("without left recursion:\n");
                }
                printf("%c'->",pr[i][0]);
                int i1=4;
                while(pr[i][i1]!='|'){
                    printf("%c",pr[i][i1]);
                    i1++;
                }
                printf("|$");
                printf("\n");
                printf("%c->",pr[i][0]);
            }
            i1++;
            while(pr[i][i1]!=NULL){
                printf("%c",pr[i][i1]);
                i1++;
            }
            printf("%c",pr[i][0]);
        }
    }
    return 0;
}
```

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main.c

```
16- if(pr[i][j+1]==pr[0][0]){
17-     printf("without left recursion:\n");
18-     printf("%c'>",pr[i][0]);
19-     int il=4;
20-     while(pr[i][il]!='|'){
21-         printf("%c",pr[i][il]);
22-         il++;
23-     }
24-     printf("|$");
25-     printf("\n");
26-     printf("%c->",pr[i][0]);
27-     il++;
28-     while(pr[i][il]!=NULL){
29-         printf("%c",pr[i][il]);
30-         il++;
31-     }
32-     printf("%c'",pr[i][0]);
33-     }
34- }
35- }
36- }
37- return 0;
39- }
```

input

Enter number of productions: 2
Enter productionsE->E+T|T
T->id
without left recursion:
E'>+T|\$
E->TE'

...Program finished with exit code 0
Press ENTER to exit console.

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main.c

```
15- if(pr[i][j]==> || pr[i][j]== | ){
16-     if(pr[i][j+1]==pr[0][0]){
17-         printf("without left recursion:\n");
18-         printf("%c'>",pr[i][0]);
19-         int il=4;
20-         while(pr[i][il]!='|'){
21-             printf("%c",pr[i][il]);
22-             il++;
23-         }
24-         printf("|$");
25-         printf("\n");
26-         printf("%c->",pr[i][0]);
27-         il++;
28-         while(pr[i][il]!=NULL){
29-             printf("%c",pr[i][il]);
30-             il++;
31-         }
32-         printf("%c'",pr[i][0]);
33-         }
34-     }
35- }
36- }
37- return 0;
38- }
39- }
```

input

Enter number of productions: 2
Enter productionsE->E+T|T
T->id
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Activities

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main.c

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     char pr[10][10];
5     printf("Enter number of productions: ");
6
7     scanf("%d",&n);
8     printf("Enter productions");
9     for(int i=0;i<n;i++){
10         scanf("%s",pr[i]);
11     }
12     for(int i=0;i<n;i++){
13         for(int j=0;j<10;j++){
14             if(pr[i][j]=='>' || pr[i][j]=='|'){
15                 if(pr[i][j+1]==pr[0][0]){
16                     printf("without left recursion:\n");
17                     printf("%c'>",pr[i][0]);
18                     int il=4;
19                     while(pr[i][il]!='|'){
20                         printf("%c",pr[i][il]);
21                         il++;
22                     }
23                     printf("|$");
24                     printf("\n");
25                     printf("%c->",pr[i][0]);
26                     il++;
27                     while(pr[i][il]!=NULL){
28                         printf("%c",pr[i][il]);
29                         il++;
30                     }
31                     printf("%c'",pr[i][0]);
32                 }
33             }
34         }
35     }
```

Input

...Program finished with exit code 0
Press ENTER to exit console.