



Project Classes Debug exp 8.cpp exp 9.cpp

```

1  #include<stdio.h>
2  #include<string.h>
3  #define SIZE 10
4  int main () {
5      char non_terminal;
6      char beta,alpha;
7      int num;
8      char production[10][SIZE];
9      int index=3;
10     printf("Enter Number of Production : ");
11     scanf("%d",&num);
12     printf("Enter the grammar as E->E-A :\n");
13     for(int i=0;i<num;i++){
14         scanf("%s",production[i]);
15     }
16     for(int i=0;i<num;i++){
17         printf("\nGRAMMAR : : : %s",production[i]);
18         non_terminal=production[i][0];
19         if(non_terminal==production[i][index]) {
20             alpha=production[i][index+1];
21             printf(" is left recursive.\n");
22             while(production[i][index]!=0 && production[i][index]!='|')
23                 index++;
24             if(production[i][index]!=0) {
25                 beta=production[i][index+1];
26                 printf("Grammar without left recursion:\n");
27                 printf("%c->%c%c'",non_terminal,beta,non_terminal);
28                 printf("\n%c\''->%c%c'\''|E\n",non_terminal,alpha,non_terminal);
29             }
30             else
31                 printf(" can't be reduced\n");
32         }
33         else
34             printf(" is not left recursive.\n");
35         index=3;
36     }

```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\swaro\OneDrive\Documents\exp 9.exe
- Output Size: 129.2705078125 KiB
- Compilation Time: 0.20s

```

