Programming Assignment-3   -Elimination of Immediate Left Recursion using C

Write a program in C to find whether the given grammar is Left Recursive or not. If it is found to be left recursive, convert the grammar in such a way that the left recursion is removed.

Example

G: E→E+T|T

T→T*F | F

F→i

Apply the following rule

If a production is of the form A→ Aα | β, convert that into A->βA', A'→ε | αA'

Grammar G is converted into G' as follows:

G': E → TE'

E' → +TE' | ε

T → FT'

T' → *FT' | ε

F → i