University of Asia Pacific

Department of Computer Science & Engineering

Compiler Design Lab

CSE 430

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Lab 3

Problem

Elimination of Left Recursion in a grammar.

Description of the problem

There is a production in the form of:

A →Aα

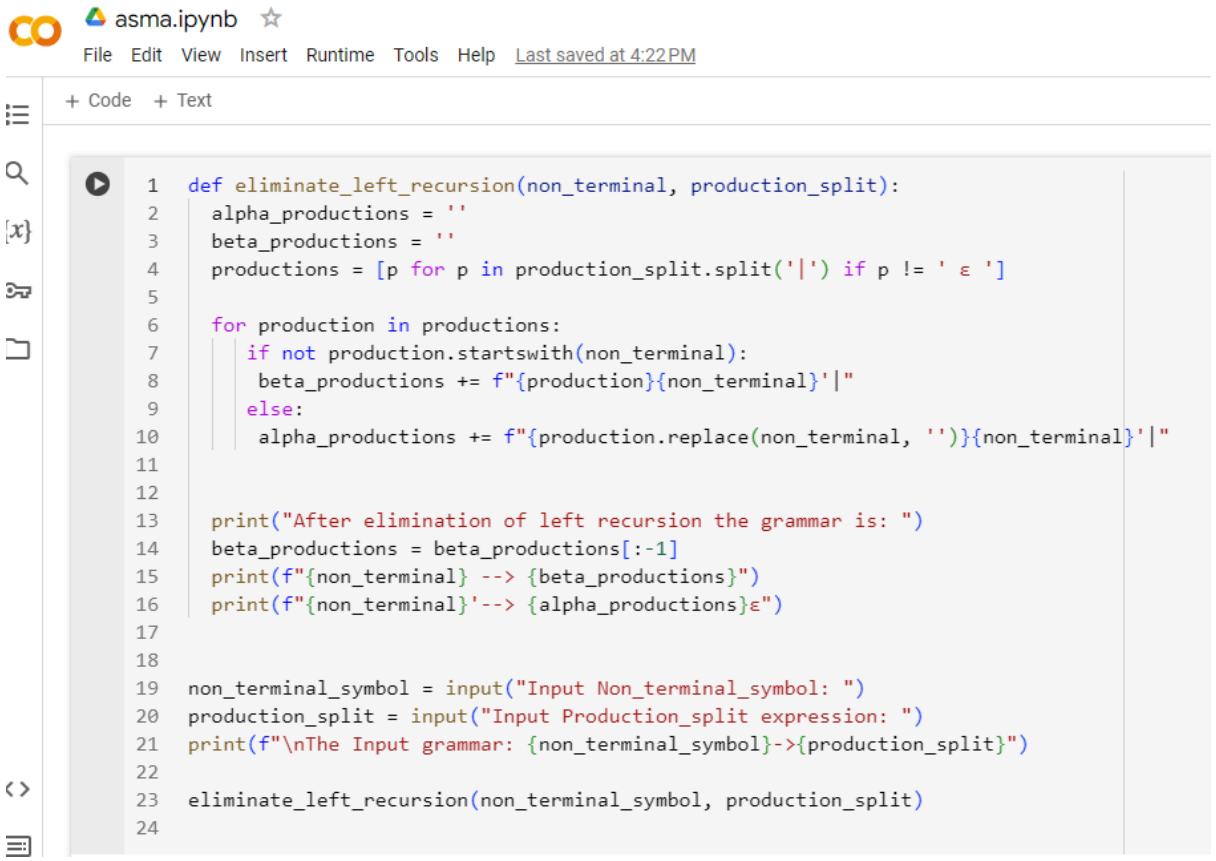
Now, we use the elimination left recursion algorithm to eliminate left recursion from a grammar which is given as an input in the console. Left recursion to consider

Now I generate the problem using this format-

A → βA'

A' → αA' | ε

Code



Sample Input:

E->E+T|T
T-> T*F | F

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Input Non_terminal_symbol: T
Input Production_split expression: T*F | F
```

Observed Output

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Input Non_terminal_symbol: T
Input Production_split expression: T*F | F

The Input grammar: T->T*F | F
After elimination of left recursion the grammar is:
T -->  FT'
T'--> *F T'|ε
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