Develop Predictive Parser the following MINI C Language

CProgram-->void main(){stmtSet }

  stmtSet-->stmt;

        |stmt;stemtSet

  stmt--> decStmt | AS | CoutStmt | cinStmt

  decStmt--> Type idSet

  Type--> int

  idSet-->id

        |id,idSet

  AS--> id=E

  E--> E+E | E*E |(E) |id | intLiteral

  coutStmt-->cout<<id

  cinstmt--> cin >> id

Requirements:

You need to submit the following items.

1- Lexical Specification
2- Transition Diagram
3- Transition Table
4- Lexical Analyze (C++ OR Java or any other language)
5- LA will out tokens into file Token.La
6- LL(1)Grammar
7- First and Follow Sets
8- Predictive parser Table
9- Parser Software using LL(1) approach (it will print parse tree in the form of productions)

  Deadline 10th June 2021

Note: You all are requested to discuss your design and any confusion either sending email or WhatsApp message. Make sure you follow the deadline strictly; no late submissions will be entertained. Also avoid peer discussions and Help. The deadline for **first 5 items is June 3, 2021. 6 to 9 deadline is June 10.**