```
Grammar
     # nonTerminalNum
     # nonTerminals
     # terminalNum
     # terminals
     # rulesNum
     # rules
     # startSymbol
     # firstSet
     + Grammar()
     + isNonterminal()
     + findRulesScope()
     + getAllFirstSet()
     + getFirstSet()
     + calFirstSet()
        Grammarl R1
- itemsSetFamily

    gotoTable

- isl R1
- root
+ GrammarLR1()
+ printACTION()
+ printGOTO()
+ printItemsFamily()
+ parser()
+ DFS()
+ printAST()

    buildGrammarAnalysisTree()

makeItemsSetFamily()
```