Group: 25

Class: CS 421 02

Project Part B

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Orginal

1 <story> ::= <s> { <s> } // stay in the loop as long as a possible start

// of <s> is the next\_token (note it can be CONNECTOR or WORD1 or PRONOUN)

2 <s> ::= [CONNECTOR] <noun> SUBJECT <verb> <tense> PERIOD

3 <s> ::= [CONNECTOR] <noun> SUBJECT <noun> <be> PERIOD

4 <s> ::= [CONNECTOR] <noun> SUBJECT <noun> DESTINATION <verb> <tense> PERIOD

5 <s> ::= [CONNECTOR] <noun> SUBJECT <noun> OBJECT <verb> <tense> PERIOD

6 <s> ::= [CONNECTOR] <noun> SUBJECT <noun> OBJECT <noun> DESTINATION <verb> <tense> PERIOD

7 <noun> ::= WORD1 | PRONOUN

8 <verb> ::= WORD2

9 <be> ::= IS | WAS

10 <tense> := VERBPAST | VERBPASTNEG | VERB | VERBNEG

Left factoring applied

1. <story> ::= <s> { <s> } // stay in the loop as long as a possible start
   * 1. // of <s> is the next\_token (note it can be CONNECTOR or WORD1 or PRONOUN)
2. <s>::=[CONNECTOR #getEword# #gen(CONNECTOR)#]] <noun> #getEword# SUBJECT #gen(ACTOR)<after\_subject>
3. <after\_subject> ::= <verb>#getEword# #gen(ACTION)# <tense> #gen(TENSE)# PERIOD | <noun>#getEword# <after\_noun>
4. <after\_noun>::=<be>#gen(DESCRIPTION)# #gen(TENSE)# PERIOD | DESTINATION #gen(TO)# <verb> #getEword# #gen(ACTION)#<tense>#gen(TENSE)# PERIOD | OBJECT #gen(OBJECT)# <AFTER\_OBJECT>
5. <AFTER\_OBJECT>::= <verb> #getEword# #gen(ACTION)# <tense> #gen(TENSE)# PERIOD |<noun> #getEword#DESTINATION #gen(TO)# <verb>#getEword# #gen(ACTION)# <tense> #gen(TENSE)# PERIOD
6. <noun> ::= WORD1 | PRONOUN
7. <verb> ::= WORD2
8. <be> ::= IS | WAS
9. <tense> := VERBPAST | VERBPASTNEG | VERB | VERBNEG