- 1. PROGRAM MODULEDECLARATIONS OTHERMODULES DRIVERMODULE OTHERMODULES
- 2. MODULEDECLARATIONS MODULEDECLARATION MODULEDECLARATIONS
- 3. MODULEDECLARATIONS epsilon
- 4. MODULEDECLARATION declare module id semicol
- 5. OTHERMODULES MODULE OTHERMODULES
- 6. OTHERMODULES epsilon
- 7. DRIVERMODULE driverdef driver program driverenddef MODULEDEF
- 8. MODULE def module id enddef takes input sqbo INPUT_PLIST sqbc semicol RET MODULEDEF
- 9. RET returns sqbo OUTPUT PLIST sqbc semicol
- 10. RET epsilon
- 11. INPUT PLIST id colon DATATYPE INPUT PLIST ONE
- 12. INPUT PLIST ONE comma id colon DATATYPE INPUT PLIST ONE
- 13. INPUT PLIST ONE epsilon
- 14. OUTPUT PLIST id colon TYPE OUTPUT PLIST ONE
- 15. OUTPUT PLIST ONE comma id colon TYPE OUTPUT PLIST ONE
- 16. OUTPUT_PLIST_ONE epsilon
- 17. DATATYPE integer
- 18. DATATYPE real
- 19. DATATYPE boolean
- 20. DATATYPE array sqbo RANGE ARRAYS sqbc of TYPE
- 21. RANGE_ARRAYS INDEX_ARR rangeop INDEX_ARR
- 22. TYPE integer
- 23. TYPE real
- 24. TYPE boolean
- 25. MODULEDEF start STATEMENTS end
- 26. STATEMENTS STATEMENT STATEMENTS
- 27. STATEMENTS epsilon
- 28. STATEMENT IOSTMT
- 29. STATEMENT SIMPLESTMT
- 30. STATEMENT DECLARESTMT

- 31. STATEMENT CONDITIONALSTMT
- 32. STATEMENT ITERATIVESTMT
- 33. IOSTMT get value bo id bc semicol
- 34. IOSTMT print bo VAR PRINT bc semicol
- 35. BOOLCONSTT true
- 36. BOOLCONSTT false
- 37. VAR PRINT id VAR PRINT ONE
- 38. VAR PRINT num
- 39. VAR PRINT rnum
- 40. VAR PRINT BOOLCONSTT
- 41. VAR PRINT ONE sqbo SIGN NEW INDEX sqbc
- 42. VAR PRINT ONE epsilon
- 43. SIMPLESTMT ASSIGNMENTSTMT
- 44. SIMPLESTMT MODULEREUSESTMT
- 45. ASSIGNMENTSTMT id WHICHSTMT
- 46. WHICHSTMT ONEVALUEIDSTMT
- 47. WHICHSTMT ONEVALUEARRSTMT
- 48. ONEVALUEIDSTMT assignop EXPRESSION semicol
- 49. ONEVALUEARRSTMT sqbo ELEMENT_INDEX_WITH_EXPRESSIONS sqbc assignop EXPRESSION semicol
- 50. INDEX ARR SIGN NEW INDEX
- 51. NEW INDEX num
- 52. NEW_INDEX id
- 53. SIGN plus
- 54. SIGN minus
- 55. SIGN epsilon
- 56. MODULEREUSESTMT OPTIONAL use module id with parameters ACTUAL PARA LIST semicol
- 57. ACTUAL PARA LIST SIGN K OLD ACTUAL PARA LIST TWO
- 58. ACTUAL_PARA_LIST_TWO comma SIGN K_OLD ACTUAL_PARA_LIST_TWO
- 59. ACTUAL PARA LIST TWO epsilon

- 60. K_OLD num
- 61. K OLD rnum
- 62. K OLD BOOLCONSTT
- 63. K OLD id N ELEVEN
- 64. OPTIONAL sqbo IDLIST sqbc assignop
- 65. OPTIONAL epsilon
- 66. IDLIST id IDLIST ONE
- 67. IDLIST_ONE comma id IDLIST_ONE
- 68. IDLIST ONE epsilon
- 69. EXPRESSION ARITHMETICORBOOLEANEXPR
- 70. EXPRESSION UNARY
- 71. UNARY UNARY OP NEW NT
- 72. NEW NT bo ARITHMETICEXPR bc
- 73. NEW NT VAR ID NUM
- 74. VAR ID NUM id
- 75. VAR ID NUM num
- 76. VAR ID NUM rnum
- 77. UNARY OP plus
- 78. UNARY_OP minus
- 79. ARITHMETICORBOOLEANEXPR ANYTERM ARITHMETICORBOOLEANEXPR_ONE
- 80. ARITHMETICORBOOLEANEXPR_ONE LOGICALOP ANYTERM ARITHMETICORBOOLEANEXPR ONE
- 81. ARITHMETICORBOOLEANEXPR_ONE epsilon
- 82. ANYTERM ARITHMETICEXPR ANYTERM_ONE
- 83. ANYTERM BOOLCONSTT
- 84. ANYTERM ONE RELATIONALOP ARITHMETICEXPR
- 85. ANYTERM ONE epsilon
- 86. ARITHMETICEXPR TERM ARITHMETICEXPR_ONE
- 87. ARITHMETICEXPR ONE OP ONE TERM ARITHMETICEXPR ONE
- 88. ARITHMETICEXPR ONE epsilon

- 89. TERM FACTOR TERM_ONE
- 90. TERM_ONE OP_TWO FACTOR TERM_ONE
- 91. TERM ONE epsilon
- 92. FACTOR bo ARITHMETICORBOOLEANEXPR bc
- 93. FACTOR num
- 94. FACTOR rnum
- 95. FACTOR BOOLCONSTT
- 96. FACTOR id N_ELEVEN
- 97. N_ELEVEN sqbo ELEMENT_INDEX_WITH_EXPRESSIONS sqbc
- 98. N ELEVEN epsilon
- 99. ELEMENT_INDEX_WITH_EXPRESSIONS SIGN N_TEN
- 100. ELEMENT INDEX WITH EXPRESSIONS ARREXPR
- 101. N_TEN NEW_INDEX
- 102. N TEN bo ARREXPR bc
- 103. ARREXPR ARRTERM ARR N FOUR
- 104. ARR N FOUR OP ONE ARRTERM ARR N FOUR
- 105. ARR_N_FOUR epsilon
- 106. ARRTERM ARRFACTOR ARR N FIVE
- 107. ARR_N_FIVE OP_TWO ARRFACTOR ARR_N_FIVE
- 108. ARR_N_FIVE epsilon
- 109. ARRFACTOR id
- 110. ARRFACTOR num
- 111. ARRFACTOR BOOLCONSTT
- 112. ARRFACTOR bo ARREXPR bc
- 113. OP ONE plus
- 114. OP ONE minus
- 115. OP TWO mul
- 116. OP TWO div
- 117. LOGICALOP and
- 118. LOGICALOP or

- 119. RELATIONALOP lt
- 120. RELATIONALOP le
- 121. RELATIONALOP gt
- 122. RELATIONALOP ge
- 123. RELATIONALOP eq
- 124. RELATIONALOP ne
- 125. DECLARESTMT declare IDLIST colon DATATYPE semicol
- 126. CONDITIONALSTMT switch bo id bc start CASESTMT DEFAULT end
- 127. CASESTMT case VALUE colon STATEMENTS break semicol CASESTMT_ONE
- 128. CASESTMT ONE case VALUE colon STATEMENTS break semicol CASESTMT ONE
- 129. CASESTMT ONE epsilon
- 130. VALUE num
- 131. VALUE true
- 132. VALUE false
- 133. DEFAULT default colon STATEMENTS break semicol
- 134. DEFAULT epsilon
- 135. ITERATIVESTMT for bo id in RANGE FOR LOOP bc start STATEMENTS end
- 136. ITERATIVESTMT while bo ARITHMETICORBOOLEANEXPR bc start STATEMENTS end
- 137. RANGE_FOR_LOOP INDEX_FOR_LOOP rangeop INDEX_FOR_LOOP
- 138. INDEX_FOR_LOOP SIGN_FOR_LOOP NEW_INDEX_FOR_LOOP
- 139. NEW_INDEX_FOR_LOOP num
- 140. SIGN FOR LOOP plus
- 141. SIGN FOR LOOP minus
- 142. SIGN_FOR_LOOP epsilon