true on succeed Salse otherwise Grammar with Decorations check Add Green Node (id:lex, PGWNAME) Global Synthesized offset = 0 nerited for other semantic action) 1. Void program id (identifier_list) ; programdeclarations $subprogram_declarations$ $compound_statement$ >> chedc/Add Blue Nude (id: lex, P6 hNAMi) 2.1. void $identifier_list$ id identifier_list 2.2.1. √oid $identifier_list'$, id identifier_list' \rightarrow 2.2.2. $identifier_list'$ \rightarrow > check/Add Blue Node (id: (ex, type, type) var id: type; declarations 3.1.declarationsVoid 3.2.declarations \rightarrow standard_type > type < stdtype.type width < shwidth 4.1.type \rightarrow type < AINT ; S INT array [num .. num] of standard_type 4.2. type \rightarrow AREAL IF REAL 5.1. $standard_type$ integer type < INT width < 4 width <(nun-nun+1) st. width E/2 R is ERR, TYPE width €8 5.2. $standard_type$ type - REAL ERIL* othering 6.1. vad subprogram_declaration ; subprogram_declarations $subprogram_declarations$ offset += width 6.2. $subprogram_declarations$ \rightarrow pop From Green Stack $subprogram_declaration$ $subprogram_head\ declarations$ $subprogram_declarations\ compound_statement$ > check Add Green Node (iv: lex, PROC) 8. Void $subprogram_head$ procedure id arguments; \rightarrow offset = 0 9.1. void (parameter_list) arguments \rightarrow 9.2. arguments-> checkAddBlue Nidelidillog 'pp"++ type) 10.1. void id: type parameter_list' $parameter_list$ 10.2.1. void ; id : type parameter_list' parameter_list' \rightarrow 10.2.2. parameter_list' 11. void $compound_statement$ begin $optional_statements$ end 12.1. void $optional_statements$ $statement_list$ 12.2. $optional_statements$ 13.1. vad $statement_list$ statement statement_list' 13.2.1. Void ; statement statement_list' $statement_list'$ 13.2.2. $statement_list'$ 14.1.statementvariable assignop expression uid 14.2. $procedure_statement$ statement14.3. $compound_statement$ statement14.4. statementwhile expression do statement Check type 1300L 14.5. statementif expression then statement else' 15.1. void else'else statement else'15.2. \rightarrow ϵ 16. variableid array_access Same as factor - id factor 17.1. [expression] $array_access$ \rightarrow 17.2. $array_access$ > Must exist & be a procedure points to the first item call id optional_expressions $procedure_statement$ void (expression_list) ~ (~ 19.1. void $optional_expressions$ \rightarrow 19.2. $optional_expressions$ $\overline{20.1}$. Void $expression_list$ expression expression_list' i e pointer to the right type -iI natch, continue; else, Suit 20.2.1. يىناك , $expression\ expression_list'$ $expression_list'$ 20.2.2. $expression_list'$ $\overline{21.}$ expression $simple_expression$ $related_expression$ 22.1. TY (C Looks exactly like the table $related_expression$ relop simple_expression * and I for factor. 22.2. $related_expression$ 23.1.1. TYPE $simple_expression$ term simple_expression' 23.1.2. $simple_expression$ \rightarrow sign term simple_expression' 23.2.1. TYPE addop term simple_expression' $simple_expression'$ 23.2.2. $simple_expression'$

Or

