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Gramática en notación EBNF modificada para ser LL(1)
1. <Program> ::= program id ; <BlockBody> .
2. <BlockBody> ::= [<ConstantDefinitionPart>] [<TypeDefinitionPart>] [<VariableDefinitionPart>]
    {<ProcedureDefinition>} <CompoundStatement>
   <ConstantDefinitionPart> ::= const <ConstantDefinition> {<ConstantDefinition>}
    <ConstantDefinition> ::= id = <Constant> ;
    <TypeDefinitionPart> ::= type <TypeDefinition> {<TypeDefinition>}
   <TypeDefinition> ::= id = <NewType> ;
   <NewType> ::= <NewArrayType> | <NewRecordType>
   <NewArrayType> ::= array [ <IndexRange> ] of id
9. <IndexRange> ::= <Constant> .. <Constant>
10. <NewRecordType> ::= record <FieldList> end
11. <FieldList> ::= <RecordSection> {; <RecordSection>}
12. <RecordSection> ::= id {, id} : id
13. <VariableDefinitionPart> ::= var <VariableDefinition> {<VariableDefinition>}
14. <VariableDefinition> ::= <VariableGroup> ;
15. <VariableGroup> ::= id {, id} : id
16. <ProcedureDefinition> ::= procedure id <ProcedureBlock> ;
17. <ProcedureBlock> ::= [( <FormalParameterList> )] ; <BlockBody>
18. <FormalParameterList> ::= <ParameterDefinition> {; <ParameterDefinition>}
19. <ParameterDefinition> ::= [var] < VariableGroup>
20. <Statement> ::= id <StatementGroup> | <IfStatement> | <WhileStatement> | <CompoundStatement> | ε
21. <StatementGroup> ::= {<Selector>} := <Expression> | <ProcedureStatement>
       Se elimina la Regla 21
22. <ProcedureStatement> ::= [( <ActualParameterList> )]
23. <ActualParameterList> ::= <Expression> {, <Expression>}
       Se elimina la Regla 24
24. <IfStatement> ::= if <Expression> then <Statement> [else <Statement>]
25. <WhileStatement> ::= while <Expression> do <Statement>
26. <CompoundStatement> ::= begin <Statement> {; <Statement>} end
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27. <Expression> ::= <SimpleExpression> [<RelationalOperator> <SimpleExpression>]

29. <SimpleExpression> ::= [<SignOperator>] <Term> {<AdditiveOperator> <Term>}

28. <RelationalOperator> ::= < | = | > | <= | <> | >=

30. <SignOperator> ::= + | -

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31. <AdditiveOperator> ::= + | - | or
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- 32. <Term> ::= <Factor> {<MultiplyingOperator> <Factor>}
- 33. <MultiplyingOperator> ::= \* | div | mod | and
- 34. <Factor> ::= numeral | id {<Selector>} | ( <Expression> ) | not <Factor>
- 35. <Selector> ::= <IndexSelector> | <FieldSelector>
- 36. <IndexSelector> ::= [ <Expression> ]
- 37. <FieldSelector> ::= . id
- 38. <Constant> ::= numeral | id

Se elimina la Regla 36

## Gramática en notación BNF

- 1. <Program> ::= program id ; <BlockBody> .
- 2. <BlockBody> ::= <ConstantDefinitionPart> <TypeDefinitionPart> <VariableDefinitionPart> <ProcedureDefinition> <CompoundStatement>
- 3. <ConstantDefinitionPart> ::= **const** <ConstantDefinition> <ConstantDefinition2> | ε
- 4. <ConstantDefinition> ::= id = <Constant> ;
- 5. <ConstantDefinition2> ::= <ConstantDefinition> <ConstantDefinition2> | ε
- <TypeDefinitionPart> ::= type <TypeDefinition> <TypeDefinition2> | ε
- 7. <TypeDefinition> ::= id = <NewType> ;
- 8. <TypeDefinition2> ::= <TypeDefinition> <TypeDefinition2> | ε
- 9. <NewType> ::= <NewArrayType> | <NewRecordType>
- 10. <NewArrayType ::= array [ <IndexRange> ] of id
- 11. <IndexRange> ::= <Constant> .. <Constant>
- 12. <NewRecordType> ::= record <FieldList> end
- 13. <FieldList> ::= <RecordSection> <FieldList2>
- 14. <FieldList2> ::= ; <RecordSection> <FieldList2> | ε
- 15. <RecordSection> ::= id <RecordSection2> : id
- 16. <RecordSection2> ::= , id <RecordSection2> | ε
- 17. <VariableDefinitionPart> ::= var <VariableDefinition> <VariableDefinition2> | ε
- 18. <VariableDefinition> ::= <VariableGroup> ;
- 19. <VariableDefinition2> ::= <VariableDefinition> <VariableDefinition2> | ε
- 20. <VariableGroup> ::= id <VariableGroup2> : id
- 21. <VariableGroup2> ::= , id <VariableGroup2> | ε
- 22. <ProcedureDefinition> ::= **procedure id** <ProcedureBlock> ; <ProcedureDefinition> | ε
- 23. <ProcedureBlock> ::= <ProcedureBlock2> ; <BlockBody>
- 24. <ProcedureBlock2> ::= ( <FormalParameterList> ) | ε
- 25. <FormalParameterList> ::= <ParameterDefinition> <ParameterDefinition2> | ε
- 26. <ParameterDefinition> ::= var <VariableGroup> | <VariableGroup>
- 27. <ParameterDefinition2> ::= ; <ParameterDefinition> <ParameterDefinition2> | ε
- 28. <Statement> ::= id <StatementGroup> | <IfStatement> | <WhileStatement> | <CompoundStatement> | ε
- 29. <StatementGroup> ::= <Factor2> := <Expression> | <ProcedureStatement>
- 30. <ProcedureStatement> ::= ( <ActualParameterList> ) | ε
- 31. <ActualParameterList> ::= <Expression> <Expression2>
- 32. <Expression2> ::= , <Expression> <Expression2> | ε

- 33. <lfStatement> ::= if <Expression> then <Statement> <lfStatement2>
- 34. <IfStatement2> ::= else <Statement> | ε
- 35. <WhileStatement> ::= while <Expression> do <Statement>
- 36. <CompoundStatement> ::= begin <Statement> <Statement2> end
- 37. <Statement2> ::= ; <Statement> <Statement2> | ε
- 38. <Expression> ::= <SimpleExpression> <ExpressionGroup>
- 39. <ExpressionGroup> ::= <RelationalOperator> <SimpleExpression> | ε
- 40. <RelationalOperator> ::= < | = | > | <= | <> | >=
- 41. <SimpleExpression> ::= <Sign> <Term> <SimpleExpressionGroup>
- 42. <Sign> ::= <SignOperator $> | \epsilon$
- 43. <SimpleExpressionGroup> ::= <AdditiveOperator> <Term> <SimpleExpressionGroup> | ε
- 44. <SignOperator> ::= + | -
- 45. <AdditiveOperator> ::= + | | or
- 46. <Term> ::= <Factor> <Multiplying>
- 47. <Multiplying> ::= <MultiplyingOperator> <Factor> <Multiplying> | ε
- 48. <MultiplyingOperator> ::= \* | div | mod | and
- 49. <Factor> ::= numeral | id <Factor2> | ( <Expression> ) | not <Factor>
- 50. <Factor2> ::= <Selector> <Factor2> | ε
- 51. <Selector> ::= <IndexSelector> | <FieldSelector>
- 52. <IndexSelector> ::= [ <Expression> ]
- 53. <FieldSelector> ::= . id
- 54. <Constant> ::= numeral | id

NO TERMINAL	FIRST	FOLLOW
Program	program	\$
BlockBody	const type var procedure begin	.;
ConstantDefinitionPart	const ε	type var procedure begin
ConstantDefinition	id	id type var procedure begin
ConstantDefinition2	id ε	type var procedure begin
TypeDefinitionPart	type ε	var procedure begin
TypeDefinition	id	id var procedure begin
TypeDefinition2	id ε	var procedure begin
NewType	array record	;
NewArrayType	array	;
IndexRange	numeral id	1
NewRecordType	record	;
FieldList	id	end
FieldList2	; ε	end
RecordSection	id	; end
RecordSection2	, ε	:
VariableDefinitionPart	var ε	procedure begin
VariableDefinition	id	id procedure begin
VariableDefinition2	id ε	procedure begin
VariableGroup	id	;)
VariableGroup2	, ε	:
ProcedureDefinition	procedure ε	begin
ProcedureBlock	(;	;
ProcedureBlock2	3)	;
FormalParameterList	var id ε	)
ParameterDefinition	var id	;)
ParameterDefinition2	; ε	)
Statement	id if while begin ε	else end ;
StatementGroup	[.:=(ε	else end ;
ProcedureStatement	(	else end ;
ActualParameterList	+ - numeral id not (	)
Expression2	, ε	)
IfStatement	if	else end ;

IfStatement2	else ε	else end ;
WhileStatement	while	else end ;
CompoundStatement	begin	else end ; .
Statement2	; ε	end
Expression	+ - numeral id not (	else end ; , ) do ] then
ExpressionGroup	< = > <= <> >= 8	else end ; , ) do ] then
RelationalOperator	<=><=<>>=	+ - numeral id not (
SimpleExpression	+ - numeral id not (	else end;,) do]then<=><=>>=
Sign	4 <b>-</b> £	numeral id not (
SimpleExpressionGroup	+ - or ε	else end;,) do]then<=><=>>=
SignOperator	+-	numeral id not (
AdditiveOperator	+ - or	numeral id not (
Term	numeral id not (	+ - or else end ; , ) do ] then < = > <= <> >=
Multiplying	* div mod and ε	+ - or else end ; , ) do ] then < = > <= <>>=
MultiplyingOperator	* div mod and	numeral id not (
Factor	numeral id not (	* div mod and + - or else end ; , ) do ] then < = > <= <> >=
Factor2	[.ε	:= * div mod and + - or else end ; , ) do ] then < = > <= <> >=
Selector	[.	[ . := * div mod and + - or else end ; , ) do ] then < = > <= <> >=
IndexSelector	[	[ . := * div mod and + - or else end ; , ) do ] then < = > <= <> >=
FieldSelector		[ . := * div mod and + - or else end ; , ) do ] then < = > <= <> >=
Constant	numeral id	; ]

Program > program ic; BlockBody > ConstantDefinitionPart TypeDefinitionPart VariableDefinitionPart Procedure Definition CompoundStatement         const type var procedure begin           ConstantDefinitionPart > const ConstantDefinition ConstantDefinition2         const           ConstantDefinitionPart > const ConstantDefinition ConstantDefinition2         id           ConstantDefinition > id = Constant;         id           ConstantDefinition2 > ConstantDefinition ConstantDefinition2         id           ConstantDefinitionPart > type TypeDefinition TypeDefinition 2 > ξ         type var procedure begin           TypeDefinitionPart > type TypeDefinition TypeDefinition 2 > ξ         var procedure begin           TypeDefinitionPart > ξ         var procedure begin           TypeDefinition > id = NewType;         id           TypeDefinition > id = NewType;         id           TypeDefinition > Σ         var procedure begin           NewType > NewType > Equivalent =	PRODUCCIÓN	PREDICTION
VariableDefinitionPart → const ConstantDefinition CompoundStatement         ConstantDefinitionPart → const ConstantDefinition ConstantDefinition ConstantDefinitionPart → const ConstantDefinition ConstantDefinition ConstantDefinition → id = ConstantDefinition ConstantDefinition	Program -> <b>program id</b> ; BlockBody .	program
ConstantDefinitionPart -> ε ConstantDefinition > id = Constant; id ConstantDefinition > id = Constant; id ConstantDefinition2 -> ConstantDefinition ConstantDefinition2 id ConstantDefinitionPart -> type TypeDefinition TypeDefinition 2 TypeDefinitionPart -> type TypeDefinition TypeDefinition 2 TypeDefinitionPart -> type TypeDefinition TypeDefinition 2 TypeDefinitionPart -> type TypeDefinition TypeDefinition 2 TypeDefinition -> id = NewType; id TypeDefinition -> id = NewType; id TypeDefinition -> TypeDefinition TypeDefinition 2 TypeDefinition -> TypeDefinition -> TypeDefinition Constant 2 TypeDefinition -> TypeDefinition -> TypeDefinition Constant 3 TypeDefinition -> TypeD		const type var procedure begin
ConstantDefinition → id = Constant ; id  ConstantDefinition ≥ ConstantDefinition ConstantDefinition ≥ id  ConstantDefinition ≥ Σ  type var procedure begin  TypeDefinitionPart → type TypeDefinition TypeDefinition 2  TypeDefinitionPart → type TypeDefinition TypeDefinition 2  TypeDefinition → id = NewType ; id  TypeDefinition > id = NewType ; id  TypeDefinition > var procedure begin  NewType → NewArrayType  array  NewType → NewRecordType  record  NewArrayType → array [ IndexRange ] of id  array  IndexRange → Constant ∴ Constant  NewRecordType → record FieldList end  record  FieldList → RecordSection FieldList2  id  FieldList > RecordSection FieldList2  id  FieldList > RecordSection FieldList2  id  RecordSection > id RecordSection ≥ id  id  RecordSection > √ NewType → NewTy	ConstantDefinitionPart -> const ConstantDefinition ConstantDefinition2	const
ConstantDefinition2 -> ConstantDefinition ConstantDefinition2  TypeDefinitionPart -> type TypeDefinition TypeDefinition 2  TypeDefinitionPart -> type TypeDefinition TypeDefinition 2  TypeDefinitionPart -> t  TypeDefinitionPart -> t  TypeDefinitionPart -> t  TypeDefinition -> id = NewType;  TypeDefinition -> id = NewType;  TypeDefinition2 -> TypeDefinition TypeDefinition2  TypeDefinition2 -> t	ConstantDefinitionPart -> ε	type var procedure begin
TypeDefinitionPart > type TypeDefinition TypeDefinition 2 type  TypeDefinitionPart > type TypeDefinition TypeDefinition 2 type  TypeDefinitionPart > ε var procedure begin  TypeDefinitionPart > ε var procedure begin  TypeDefinition > Id = NewType;  Id  TypeDefinition2 -> TypeDefinition TypeDefinition2  Id  TypeDefinition2 -> ε var procedure begin  NewType -> NewArrayType  RewType -> NewArrayType  RewType -> NewArrayType  RewType -> NewArrayType  RewType -> NewArrayType -> array [ IndexRange ] of id  RewRecordType -> record  RewRecordType -> record FieldList end  RecordSection FieldList2  Id  RecordSection FieldList2  Id  RecordSection FieldList2  Id  RecordSection -> Id RecordSection FieldList2  RecordSection2 -> , Id RecordSection2  RecordSection2 -> , Id RecordSection2  RecordSection2 ->  Id  RecordSection2 ->  Id  RecordSection3 ->  Id  RecordSection4 ->  Id  RecordSection5 ->  Id	ConstantDefinition -> id = Constant;	id
TypeDefinitionPart → type TypeDefinition TypeDefinition 2  TypeDefinitionPart → ε  TypeDefinitionPart → ε  TypeDefinitionPart → id = NewType ;  Id  TypeDefinition → id = NewType ;  TypeDefinition → id = NewType }  TypeDefinition → NewArrayType	ConstantDefinition2 -> ConstantDefinition ConstantDefinition2	id
TypeDefinitionPart > ε  TypeDefinition > id = NewType ;  TypeDefinition > id = NewType    TypeDefinition > id    TypeDefinition > id    TypeDefinition > id    NewType > NewArrayType    Trecord    NewType > NewRecordType    Trecord    NewArrayType > array    IndexRange   of id    Trecord    IndexRange > Constant Constant    NewRecordType > record FieldList end    Trecord    FieldList > RecordSection FieldList2    TipeIdList > RecordSection FieldList2    TipeIdList > id    RecordSection > id RecordSection FieldList2    TipeIdList > id    RecordSection > id RecordSection    RecordSection > id RecordSection    TypeDefinitionPart > var VariableDefinition VariableDefinition    VariableDefinitionPart > var VariableDefinition VariableDefinition    VariableDefinition > VariableGroup ;  VariableDefinition > VariableGroup 2 : id    VariableGroup > id VariableGroup 2 : id    VariableGroup 2 > , id VariableGroup 2    VariableGroup 2 > , id VariableGroup 2    VariableGroup 2 >	ConstantDefinition2 -> ε	type var procedure begin
TypeDefinition > id = NewType ;  TypeDefinition 2 > Σ TypeDefinition TypeDefinition 2  TypeDefinition 2 > Σ Var procedure begin  NewType > NewArrayType  NewType > NewRecordType  NewArrayType > array [ IndexRange ] of id  IndexRange > Constant Constant  NewRecordType > record  IndexRange > Constant Constant  NewRecordType > record FieldList end  record  FieldList > RecordSection FieldList2  id  FieldList2 > ; RecordSection FieldList2  id  RecordSection > id RecordSection 2 : id  RecordSection > id RecordSection 2 : id  RecordSection > Σ :  VariableDefinitionPart > Var VariableDefinition VariableDefinition 2  VariableDefinition > VariableDefinition VariableDefinition 2  VariableDefinition > VariableDefinition VariableDefinition 2  VariableDefinition > VariableGroup 2 : id  VariableGroup > id VariableGroup 2 : id  VariableGroup 2 > , id VariableGroup 2  ProcedureDefinition > Procedure id ProcedureBlock ; ProcedureDefinition Procedure  ProcedureDefinition > Procedure  Procedure Definition > Procedure	TypeDefinitionPart -> type TypeDefinition TypeDefinition 2	type
TypeDefinition2 → TypeDefinition TypeDefinition2  TypeDefinition2 → ε  Var procedure begin  NewType → NewArrayType  RewType → NewRecordType  RewType → NewRecordType  RewArrayType → array [IndexRange ] of id  RewRecordType → record FieldList end  RewRecordType → record FieldList end  FieldList → RecordSection FieldList2  FieldList2 → ; RecordSection FieldList2  FieldList2 → ; RecordSection FieldList2  FieldList2 → id RecordSection2 : id  RecordSection2 → id RecordSection2  VariableDefinitionPart → var VariableDefinition VariableDefinition2  VariableDefinition → VariableGroup ;  id  VariableDefinition2 → VariableGroup 2  VariableGroup → id VariableGroup 2 : id  VariableGroup → id VariableGroup 2  VariableGroup 2 → id VariableGroup 2	TypeDefinitionPart -> ε	var procedure begin
TypeDefinition2 -> ε  NewType -> NewArrayType  NewType -> NewRecordType  record  NewArrayType -> Array [ IndexRange ] of id  IndexRange -> Constant Constant  NewRecordType -> record FieldList end  record  FieldList -> RecordSection FieldList 2  FieldList2 -> ; RecordSection FieldList2  FieldList2 -> id RecordSection2 : id  RecordSection -> id RecordSection2  RecordSection2 -> , id RecordSection2  RecordSection4 -> id RecordSection5  VariableDefinitionPart -> var VariableDefinition VariableDefinition2  VariableDefinition -> VariableGroup ;  id  VariableDefinition -> VariableGroup 2  VariableGroup -> id VariableGroup 2 : id  id  VariableGroup 2 -> , id VariableGroup 2	TypeDefinition -> id = NewType;	id
NewType -> NewArrayType       array         NewType -> NewRecordType       record         NewArrayType -> array [ IndexRange ] of id       array         IndexRange -> Constant Constant       numeral id         NewRecordType -> record FieldList end       record         FieldList -> RecordSection FieldList2       id         FieldList -> ; RecordSection FieldList2       ;         FieldList2 -> ; RecordSection FieldList2       ;         FieldList2 -> ; RecordSection 2 : id       id         RecordSection -> id RecordSection2       ,         RecordSection2 -> ; id RecordSection2       ;         VariableDefinitionPart -> var VariableDefinition VariableDefinition2       var         VariableDefinition -> variableGroup ;       id         VariableDefinition2 -> VariableDefinition VariableDefinition2       id         VariableGroup -> id VariableGroup 2 : id       id         VariableGroup -> id VariableGroup 2 : id       id         VariableGroup 2 -> , id VariableGroup 2       ,         VariableGroup 2 -> , id VariableGroup 2       ;         ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition       procedure	TypeDefinition2 -> TypeDefinition TypeDefinition2	id
NewType → NewRecordType       record         NewArrayType → array [ IndexRange ] of id       array         IndexRange → Constant Constant       numeral id         NewRecordType → record FieldList end       record         FieldList → RecordSection FieldList2       id         FieldList2 → RecordSection FieldList2       ;         FieldList2 → RecordSection FieldList2       ;         FieldList2 → RecordSection FieldList2       id         RecordSection → id RecordSection2 : id       id         RecordSection2 → , id RecordSection2       ,         RecordSection2 → E       :         VariableDefinitionPart → var VariableDefinition VariableDefinition2       var         VariableDefinitionPart → E       procedure begin         VariableDefinition → VariableGroup;       id         VariableDefinition2 → VariableDefinition VariableDefinition2       id         VariableGroup → id VariableGroup 2 : id       id         VariableGroup 2 → , id VariableGroup 2       ,         VariableGroup 2 → , id VariableGroup 2       ,         VariableGroup 2 → , id VariableGroup 2       .         ProcedureDefinition → procedure id ProcedureBlock ; ProcedureDefinition       procedure	TypeDefinition2 -> ε	var procedure begin
NewArrayType -> array [ IndexRange ] of id       array         IndexRange -> Constant Constant       numeral id         NewRecordType -> record FieldList end       record         FieldList -> RecordSection FieldList2       id         FieldList2 -> ξ RecordSection FieldList2       ;         FieldList2 -> ξ end       end         RecordSection -> id RecordSection2 : id       id         RecordSection2 -> , id RecordSection2       ,         RecordSection2 -> ξ       :         VariableDefinitionPart -> var VariableDefinition VariableDefinition2       var         VariableDefinition -> VariableGroup ;       id         VariableDefinition2 -> VariableGroup ;       id         VariableDefinition2 -> VariableGroup 2 : id       id         VariableGroup -> id VariableGroup 2 : id       id         VariableGroup 2 -> , id VariableGroup 2       ,         VariableGroup 2 -> , id VariableGroup 2       ;         VariableGroup 2 -> , id VariableGroup 2       ;         ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition       procedure	NewType -> NewArrayType	array
IndexRange -> Constant Constant  NewRecordType -> record FieldList end  FieldList -> RecordSection FieldList2  FieldList -> RecordSection FieldList2  FieldList2 -> ; RecordSection FieldList2  FieldList2 -> ε  end  RecordSection -> id RecordSection2 : id  RecordSection2 -> , id RecordSection2  RecordSection2 -> ε  VariableDefinitionPart -> var VariableDefinition VariableDefinition2  VariableDefinition -> VariableGroup;  VariableDefinition -> VariableDefinition VariableDefinition2  VariableDefinition2 -> ξ  id  VariableDefinition2 -> var variableDefinition VariableDefinition2  VariableDefinition2 -> VariableGroup;  id  VariableDefinition2 -> δ  procedure begin  VariableGroup -> id VariableGroup 2 : id  id  VariableGroup -> id VariableGroup 2  VariableGroup 2 -> ; id VariableGroup 2  ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition  procedure	NewType -> NewRecordType	record
NewRecordType -> record FieldList end       record         FieldList -> RecordSection FieldList2       id         FieldList2 -> ; RecordSection FieldList2       ;         FieldList2 -> ε       end         RecordSection -> id RecordSection2 : id       id         RecordSection2 -> , id RecordSection2       ,         RecordSection2 -> ε       :         VariableDefinitionPart -> var VariableDefinition VariableDefinition2       var         VariableDefinitionPart -> ε       procedure begin         VariableDefinition -> VariableGroup;       id         VariableDefinition2 -> ε       procedure begin         VariableGroup -> id VariableGroup 2 : id       id         VariableGroup -> id VariableGroup 2 : id       id         VariableGroup 2 -> , id VariableGroup 2       ,         VariableGroup 2 ->  ξ       :         ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition       procedure	NewArrayType -> array [ IndexRange ] of id	array
FieldList -> RecordSection FieldList2   FieldList2 -> ; RecordSection FieldList2   FieldList2 -> $\epsilon$ end  RecordSection -> id RecordSection2 : id   RecordSection2 -> , id RecordSection2   ,   RecordSection2 -> $\epsilon$ : :  VariableDefinitionPart -> var VariableDefinition VariableDefinition2   VariableDefinition -> VariableGroup ;   id   VariableDefinition2 -> VariableDefinition VariableDefinition2   id   VariableDefinition2 -> VariableDefinition VariableDefinition2   id   VariableDefinition2 -> VariableGroup ;   id   VariableDefinition2 -> id VariableGroup 2 : id   id   VariableGroup -> id VariableGroup 2 : id   id   VariableGroup 2 -> , id VariableGroup 2   ,   ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition   procedure	IndexRange -> Constant Constant	numeral id
FieldList2 -> ; RecordSection FieldList2 ; FieldList2 -> ; RecordSection FieldList2 :> $\epsilon$ end RecordSection -> id RecordSection2 : id id RecordSection2 -> , id RecordSection2 -> $\epsilon$ : $\epsilon$ RecordSection2 -> $\epsilon$ : $\epsilon$ : $\epsilon$ VariableDefinitionPart -> $\epsilon$ var VariableDefinition VariableDefinition2 var VariableDefinition -> VariableGroup ; id $\epsilon$ VariableDefinition2 -> $\epsilon$ procedure begin VariableGroup -> id VariableGroup 2 : id id VariableGroup -> id VariableGroup 2 : id id Procedure Definition2 -> $\epsilon$ procedure begin VariableGroup 2 -> , id VariableGroup 2 : id id ProcedureDefinition2 -> $\epsilon$ procedure Definition3 -> $\epsilon$ procedure Definition3 -> $\epsilon$ procedure id ProcedureBlock ; ProcedureDefinition procedure	NewRecordType -> record FieldList end	record
FieldList2 -> $\epsilon$ end  RecordSection -> id RecordSection2 : id  RecordSection2 -> , id RecordSection2  RecordSection2 -> , id RecordSection2  RecordSection2 -> $\epsilon$ :  VariableDefinitionPart -> var VariableDefinition VariableDefinition2  VariableDefinitionPart -> $\epsilon$ procedure begin  VariableDefinition -> VariableGroup;  id  VariableDefinition2 -> VariableDefinition VariableDefinition2  id  VariableDefinition2 -> $\epsilon$ procedure begin  VariableGroup -> id VariableGroup 2 : id  id  VariableGroup 2 -> , id VariableGroup 2  ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition	FieldList -> RecordSection FieldList2	id
RecordSection -> id RecordSection2 : id id  RecordSection2 -> , id RecordSection2 ,  RecordSection2 ->	FieldList2 -> ; RecordSection FieldList2	;
RecordSection2 -> , id RecordSection2  RecordSection2 -> ε  VariableDefinitionPart -> var VariableDefinition VariableDefinition2  VariableDefinitionPart -> ε  Procedure begin  VariableDefinition -> VariableGroup;  id  VariableDefinition2 -> VariableDefinition VariableDefinition2  id  VariableDefinition2 -> ε  procedure begin  VariableGroup -> id VariableGroup 2: id  id  VariableGroup -> id VariableGroup 2 : id  VariableGroup 2 -> , id VariableGroup 2  ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition  procedure	FieldList2 -> ε	end
RecordSection2 -> $\epsilon$ :  VariableDefinitionPart -> var VariableDefinition VariableDefinition2  VariableDefinitionPart -> $\epsilon$ procedure begin  VariableDefinition -> VariableGroup;  id  VariableDefinition2 -> VariableDefinition VariableDefinition2  id  VariableDefinition2 -> $\epsilon$ procedure begin  VariableGroup -> id VariableGroup 2: id  id  VariableGroup 2 -> , id VariableGroup 2	RecordSection -> id RecordSection2 : id	id
VariableDefinitionPart -> var VariableDefinition VariableDefinition2       var         VariableDefinitionPart -> ε       procedure begin         VariableDefinition -> VariableGroup;       id         VariableDefinition2 -> VariableDefinition VariableDefinition2       id         VariableDefinition2 -> ε       procedure begin         VariableGroup -> id VariableGroup 2: id       id         VariableGroup 2 -> , id VariableGroup 2       ,         VariableGroup 2 -> ε       :         ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition       procedure	RecordSection2 -> , id RecordSection2	,
VariableDefinition Part -> ε       procedure begin         VariableDefinition -> VariableGroup;       id         VariableDefinition2 -> VariableDefinition VariableDefinition2       id         VariableDefinition2 -> ε       procedure begin         VariableGroup -> id VariableGroup 2: id       id         VariableGroup 2 -> , id VariableGroup 2       ,         VariableGroup 2 -> ε       :         ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition       procedure	RecordSection2 -> ε	:
VariableDefinition -> VariableGroup;  Id  VariableDefinition2 -> VariableDefinition VariableDefinition2  VariableDefinition2 -> ε  Procedure begin  id  id  VariableGroup -> id VariableGroup 2: id  id  VariableGroup 2 -> , id VariableGroup 2  γ  VariableGroup 2 -> , id VariableGroup 2  γ  ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition  procedure	VariableDefinitionPart -> var VariableDefinition VariableDefinition2	var
VariableDefinition2 -> VariableDefinition VariableDefinition2idVariableDefinition2 -> $\epsilon$ procedure beginVariableGroup -> id VariableGroup 2 : ididVariableGroup 2 -> , id VariableGroup 2,VariableGroup 2 -> $\epsilon$ :ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinitionprocedure	VariableDefinitionPart -> ε	procedure begin
VariableDefinition2 -> $\epsilon$ procedure beginVariableGroup -> id VariableGroup 2 : ididVariableGroup 2 -> , id VariableGroup 2,VariableGroup 2 -> $\epsilon$ :ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinitionprocedure	VariableDefinition -> VariableGroup;	id
VariableGroup -> id VariableGroup 2 : id  VariableGroup 2 -> , id VariableGroup 2  ,  VariableGroup 2 -> ε  ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition  procedure	VariableDefinition2 -> VariableDefinition VariableDefinition2	id
VariableGroup 2 -> , id VariableGroup 2 ,  VariableGroup 2 -> ε :  ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition procedure	VariableDefinition2 -> ε	procedure begin
VariableGroup 2 -> ε :  ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition procedure	VariableGroup -> <b>id</b> VariableGroup 2 : <b>id</b>	id
ProcedureDefinition -> procedure id ProcedureBlock ; ProcedureDefinition procedure	VariableGroup 2 -> , id VariableGroup 2	,
	VariableGroup 2 -> ε	:
ProcedureDefinition -> ε begin	ProcedureDefinition -> procedure id ProcedureBlock; ProcedureDefinition	procedure
	ProcedureDefinition -> ε	begin

ProcedureBlock -> ProcedureBlock2; BlockBody	(;
ProcedureBlock2 -> ( FormalParameterList )	(
ProcedureBlock2 -> ε	;
FormalParameterList -> ParameterDefinition ParameterDefinition2	var id
FormalParameterList -> ε	)
ParameterDefinition -> var VariableGroup	var
ParameterDefinition -> VariableGroup	id
ParameterDefinition2 -> ; ParameterDefinition ParameterDefinition2	;
ParameterDefinition2 -> ε	)
Statement -> id StatementGroup	id
Statement -> IfStatement	if
Statement -> WhileStatement	while
Statement -> CompoundStatement	begin
Statement -> ε	else end ;
StatementGroup -> Factor2 := Expression	[.:=
StatementGroup -> ProcedureStatement	( else end ;
ProcedureStatement -> ( ActualParameterList )	(
ProcedureStatement -> ε	else end ;
ActualParameterList -> Expression Expression2	+ - numeral id not (
Expression2 -> , Expression Expression2	,
Expression2 -> ε	)
IfStatement -> if Expression then Statement IfStatement2	if
IfStatement2 -> else Statement	else
IfStatement2 -> ε	else end ;
WhileStatement -> while Expression do Statement	while
CompoundStatement -> begin Statement Statement2 end	begin
Statement2 -> ; Statement Statement2	;
Statement2 -> ε	end
Expression -> SimpleExpression ExpressionGroup	+ - numeral id not (
ExpressionGroup -> RelationalOperator SimpleExpression	<=><=<>>=
ExpressionGroup -> ε	else end ; , ) do ] then
RelationalOperator -> <   =   >   <=   <>   >=	<   =   >   <=   <>   >=
SimpleExpression -> Sign Term SimpleExpressionGroup	+ - numeral id not (

Sign -> SignOperator	+-
Sign -> ε	numeral id not (
SimpleExpressionGroup -> AdditiveOperator Term SimpleExpressionGroup	+ - or
SimpleExpressionGroup -> ε	else end ; , ) do ] then < = > <= <> >=
SignOperator -> +   -	+ -
AdditiveOperator -> +   -   or	+   -   or
Term -> Factor Multiplying	numeral id not (
Multiplying -> MultiplyingOperator Factor Multiplying	* div mod and
Multiplying -> ε	+ - or else end ; , ) do ] then < = > <= <>>=
MultiplyingOperator -> *   div   mod   and	*   div   mod   and
Factor -> numeral	numeral
Factor -> id Factor2	id
Factor -> ( Expression )	(
Factor -> <b>not</b> Factor	not
Factor2 -> Selector Factor2	[.
Factor2 -> ε	:= * div mod and + - or else end ; , ) do ] then < = > <= <> >=
Selector -> IndexSelector	]
Selector -> FieldSelector	
IndexSelector -> [ Expression ]	[
FieldSelector -> . id	
Constant -> numeral	numeral
Constant -> id	id