***Follow Set***

|  |  |
| --- | --- |
| Non-Terminal Symbol | Follow Set |
| <program> | # |
| <global> | Lead |
| <global\_choice> | . |
| <dtype> | of, ;, Int, Double, Char, String, Boolean, ., ), id |
| <object> | . |
| <objdec\_choice> | End |
| <var> | . |
| <objvar> | . |
| <varname> | . |
| <varnames> | . |
| <task> | . |
| <return> | id |
| <tparam> | . |
| <tparams> | ) |
| <array> | . |
| <size> | . |
| <sizes> | . |
| <varlet> | . |
| <vardec> | . |
| <varINT> | . |
| <initINT> | . |
| <varDOUBLE> | . |
| <initDOUBLE> | . |
| <varCHAR> | . |
| <initCHAR> | . |
| <varSTRING> | . |
| <initSTRING> | . |
| <varBOOLEAN> | . |
| <initBOOLEAN> | . |
| <ids1> | . |
| <ids2> | . |
| <ids3> | . |
| <ids4> | . |
| <ids5> | . |
| <value1> | ), ;, . |
| <value2> | ), ;, . |
| <value3> | ;, . |
| <value4> | ;, . |
| <value5> | ;, ., &&, ||, >=, <=, <, >, ==, !=, ) |
| <numvalue> | +, -, \*, /, %, ), ;, . |
| <numelement> | +, -, \*, /, %, ), ;, . |
| <Operations1> | ), ;, . |
| <OpInt> | ), ;, . |
| <Op1> | ), ;, . |
| <doublevalue> | +, -, \*, /, %, ), ;, . |
| <Operations2> | ), ;, . |
| <OpDouble> | ), ;, . |
| <Op2> | ), ;, . |
| <mathOp> | (, doublelit, id, ++, --, intlit |
| <incdec> | id, +, -, \*, /, %, ), ., ; |
| <relop1> | intlit |
| <logop1> | intlit, doublelit, charlit, stringlit, !, id, boollit, ( |
| <logop2> | boollit, id, ( |
| <body> | End |
| <statements> | ., Stop, End |
| <functions> | . |
| <id\_choices> | . |
| <subelement\_choice> |  |
| <varinit> | . |
| <varinitINT> | . |
| <varinitDOUBLE> | . |
| <varinitCHAR> | . |
| <varinitSTRING> | . |
| <varinitBOOLEAN> | . |
| <INT> | . |
| <intchoices> | . |
| <intchoice1> | . |
| <intchoice2> | . |
| <incdec\_null> | +, -, \*, /, %, id, ., ), ; |
| <DOUBLE> | . |
| <doublechoices> | . |
| <doublechoice1> | . |
| <doublechoice2> | . |
| <CHAR> | . |
| <STRING> | . |
| <BOOLEAN> | . |
| <task\_id> | ., &&, ||, >=, <=, <, >, ==, !=, ) |
| <param> | ) |
| <params> | ) |
| <value> | ;, ), . |
| <io\_statement> | . |
| <input> | . |
| <output> | . |
| <input\_statement> | . |
| <concat> | . |
| <concat\_value> | ,, . |
| <incdecvar> | ) |
| <subelement> | ++, --, @, Start, ,, ., +, -, \*, /, %, ), ;, &&, ||, >=, <=, <, >, ==, != |
| <input\_id> | Start, ,, &&, ||, >=, <=, <, >, ==, !=, ., ;, ) |
| <multi> | = |
| <index> | ] |
| <IfOtherwise> | . |
| <or> | intlit, doublelit, charlit, stringlit, !, id, boollit, (, Otherwise |
| <otherwise> | EndIf |
| <cond\_loop> | Loop, LoopIf, Skip, Stop, Or, intlit, doublelit, charlit, stringlit, !, id, boollit, (, ), EndIf, Otherwise |
| <control> | Var, Clear, id, Int, Char, Boolean, Double, String, ++, --, Object, Until, Do, For, Array, If, Read, Say, Option, Loop, LoopIf, Skip, Stop, Or, intlit, doublelit, charlit, stringlit, !, boollit, (, ), EndIf, Otherwise |
| <conditions> | ) |
| <conditionschoice> | ) |
| <multiconds> | ) |
| <idschoice> | &&, ||, >=, <=, <, >, ==, !=, ) |
| <idschoice1> | &&, ||, >=, <=, <, >, ==, !=, ) |
| <idsbody> | &&, ||, >=, <=, <, >, ==, !=, ) |
| <condsTail> | ) |
| <logOps> | ) |
| <relOps> | ) |
| <relopNum> | intlit, doublelit, id |
| <relopText> | intlit, doublelit, charlit, stringlit, !, id, boollit |
| <numval> | ) |
| <ids> | &&, ||, >=, <=, <, >, ==, !=, ) |
| <ids\_null> | &&, ||, >=, <=, <, >, ==, !=, ) |
| <option> | . |
| <optiontails> | . |
| <optiontail1> | . |
| <optiontail2> | . |
| <optiontail3> | . |
| <state1> | Var, Clear, id, Int, Char, Boolean, Double, String, ++, --, Object, Until, Do, For, Array, If, Read, Say, Option, Default |
| <state2> | Var, Clear, id, Int, Char, Boolean, Double, String, ++, --, Object, Until, Do, For, Array, If, Read, Say, Option, Default |
| <state3> | Var, Clear, id, Int, Char, Boolean, Double, String, ++, --, Object, Until, Do, For, Array, If, Read, Say, Option, Default |
| <default> | End |
| <loopstate> | . |
| <initialize> | ; |
| <cond> | ; |
| <taskdef> | # |
| <returntype> | End |
| <taskbody> | Response, End |
| <taskbodytail> | Response, End |
| <returnINT> | . |
| <returnDOUBLE> | . |
| <returnCHAR> | . |
| <returnSTRING> | . |
| <returnBOOLEAN> | . |
| <returntail> | . |
| <StartProgram> | λ |