**Follow Set**

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***NON-TERMINAL*** | ***→*** | ***FIRST SET*** |
| *1* | Follow ( <global> ) | → | {!START } |
| *2* | Follow ( <fixed\_dec> ) | → | { fixed, file, number, decimal, string, boolean, null, !START } |
| *3* | Follow ( <data\_type> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *4* | Follow ( <vardec> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *5* | Follow ( <values\_num> ) | → | { . } |
| *6* | Follow ( <more\_num> ) | → | { . } |
| *7* | Follow ( <values\_dec> ) | → | { . } |
| *8* | Follow ( <more\_dec> ) | → | { . } |
| *9* | Follow ( <values\_str> ) | → | { . } |
| *10* | Follow ( <more\_str> ) | → | { . } |
| *11* | Follow ( <values\_bool> ) | → | { . } |
| *12* | Follow ( <more\_bool> ) | → | { . } |
| *13* | Follow ( <fdata\_type> ) | → | { . } |
| *14* | Follow ( <fvalues\_num> ) | → | { . } |
| *15* | Follow ( <fmore\_num> ) | → | { . } |
| *16* | Follow ( <fvalues\_dec> ) | → | { . } |
| *17* | Follow ( <fmore\_dec> ) | → | { . } |
| *18* | Follow ( <fvalues\_str> ) | → | { . } |
| *19* | Follow ( <fmore\_str> ) | → | { . } |
| *20* | Follow ( <fvalues\_bool> ) | → | { . } |
| *21* | Follow ( <fmore\_bool> ) | → | { . } |
| *22* | Follow ( <file> ) | → | { fixed, file, number, decimal, string, boolean, null, !START } |
| *23* | Follow ( <file\_elem> ) | → | { end } |
| *24* | Follow ( <dtype> ) | → | { ,, ., ) } |
| *25* | Follow ( <file\_tail> ) | → | { end } |
| *26* | Follow ( <file\_id> ) | → | { fixed, file, number, decimal, string, boolean, null, !START } |
| *27* | Follow ( <file\_id\_tail> ) | → | { . } |
| *28* | Follow ( <funct> ) | → | { fixed, file, number, decimal, string, boolean, null, !START } |
| *29* | Follow ( <param> ) | → | { ) } |
| *30* | Follow ( <param\_tail> ) | → | { ) } |
| *31* | Follow ( <returnNum> ) | → | { end } |
| *32* | Follow ( <returnDec> ) | → | { end } |
| *33* | Follow ( <returnStr> ) | → | { end } |
| *34* | Follow ( <returnBool> ) | → | { end } |
| *35* | Follow ( <returnTail> ) | → | { end } |
| *36* | Follow ( <funct\_param> ) | → | { ) } |
| *37* | Follow ( <funct\_paramTail> ) | → | { ) } |
| *38* | Follow ( <value> ) | → | { ,, ) } |
| *39* | Follow ( <values> ) | → | { ==, !=, >, <, >=, <=, ,, ) } |
| *40* | Follow ( <elem> ) | → | { end, =, +=, -=, \*=, /=, ,, ., ), +, -, \*, /, %, ==, !=, >, <, >=, <= } |
| *41* | Follow ( <elem\_tail> ) | → | { end, ,, ), =, +=, -=, \*=, /=, ., +, -, \*, /, %, ==, !=, >, <, >=, <= } |
| *42* | Follow ( <array> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *43* | Follow ( <numb\_array> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *44* | Follow ( <number\_array> ) | → | { ,, [, . } |
| *45* | Follow ( <more\_numberArray> ) | → | { . } |
| *46* | Follow ( <number\_array1> ) | → | { ,, [, . } |
| *47* | Follow ( <number\_array1Tail> ) | → | { ,, [, . } |
| *48* | Follow ( <moreNumber> ) | → | { } } |
| *49* | Follow ( <number\_array2> ) | → | { ,, [, . } |
| *50* | Follow ( <number\_array2Tail> ) | → | { ,, [, . } |
| *51* | Follow ( <number\_array2Val> ) | → | { ,, {, } } |
| *52* | Follow ( <number\_array2Val\_tail> ) | → | { } } |
| *53* | Follow ( <array\_choice> ) | → | { ], ==, !=, >, <, >=, <=, , } |
| *54* | Follow ( <ops> ) | → | { ==, !=, >, <, >=, <=, ], , } |
| *55* | Follow ( <mathop> ) | → | { (, id, decimallit, numberlit } |
| *56* | Follow ( <dec\_array> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *57* | Follow ( <decimal\_array> ) | → | { ,, [, . } |
| *58* | Follow ( <more\_decimalArray> ) | → | { . } |
| *59* | Follow ( <decimal\_array1> ) | → | { ,, [, . } |
| *60* | Follow ( <decimal\_array1Tail> ) | → | { ,, [, . } |
| *61* | Follow ( <moreDecimal> ) | → | { } } |
| *62* | Follow ( <decimal\_array2> ) | → | { ,, [, . } |
| *63* | Follow ( <decimal\_array2Tail> ) | → | { ,, [, . } |
| *64* | Follow ( <decimal\_array2Val> ) | → | { ,, {, } } |
| *65* | Follow ( <decimal\_array2Val\_tail> ) | → | { } } |
| *66* | Follow ( <str\_array> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *67* | Follow ( <string\_array> ) | → | { ,, [, . } |
| *68* | Follow ( <more\_stringArray> ) | → | { . } |
| *69* | Follow ( <string\_array1> ) | → | { ,, [, . } |
| *70* | Follow ( <string\_array1Tail> ) | → | { ,, [, . } |
| *71* | Follow ( <moreString> ) | → | { } } |
| *72* | Follow ( <string\_array2> ) | → | { ,, [, . } |
| *73* | Follow ( <string\_array2Tail> ) | → | { ,, [, . } |
| *74* | Follow ( <string\_array2Val> ) | → | ,, {, } |
| *75* | Follow ( <string\_array2Val\_tail> ) | → | { } } |
| *76* | Follow ( <bool\_array> ) | → | { fixed, file, number, decimal, string, boolean, null, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, !START, end, elseif, else, return, END! } |
| *77* | Follow ( <boolean\_array> ) | → | { ,, [, . } |
| *78* | Follow ( <more\_booleanArray> ) | → | { . } |
| *79* | Follow ( <boolean\_array1> ) | → | { ,, [, . } |
| *80* | Follow ( <boolean\_array1Tail> ) | → | { ,, [, . } |
| *81* | Follow ( <moreBoolean> ) | → | { } } |
| *82* | Follow ( <boolean\_array2> ) | → | { ,, [, . } |
| *83* | Follow ( <boolean\_array2Tail> ) | → | { ,, [, . } |
| *84* | Follow ( <boolean\_array2Val> ) | → | { ,, {, } } |
| *85* | Follow ( <boolean\_array2Val\_tail> ) | → | { } } |
| *86* | Follow ( <statement> ) | → | { Stop, return, end, END! } |
| *87* | Follow ( <function> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *88* | Follow ( <io\_statement> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *89* | Follow ( <output> ) | → | { . } |
| *90* | Follow ( <output\_tail> ) | → | { . } |
| *91* | Follow ( <ids\_tail> ) | → | { =, +=, -=, \*=, /=, ,, ., +, -, \*, /, %, ==, !=, >, <, >=, <=, ) } |
| *92* | Follow ( <id\_choices> ) | → | { =, +=, -=, \*=, /=, ,, ., +, -, \*, /, %, ==, !=, >, <, >=, <=, ) } |
| *93* | Follow ( <more\_array> ) | → | { =, +=, -=, \*=, /=, ,, ., +, -, \*, /, %, ==, !=, >, <, >=, <=, ) } |
| *94* | Follow ( <inc\_dec> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *95* | Follow ( <inc\_decOp> ) | → | { ., id } |
| *96* | Follow ( <id\_func> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *97* | Follow ( <id\_funcTail> ) | → | { . } |
| *98* | Follow ( <ass\_op> ) | → | { numberlit, decimallit, id, ( } |
| *99* | Follow ( <ass\_values> ) | → | { . } |
| *100* | Follow ( <ass\_opValues> ) | → | { . } |
| *101* | Follow ( <if\_statement> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *102* | Follow ( <condition> ) | → | { ) } |
| *103* | Follow ( <conditional> ) | → | { ) } |
| *104* | Follow ( <compares> ) | → | { ==, !=, >, <, >=, <=, ) } |
| *105* | Follow ( <id\_compares> ) | → | { +, -, \*, /, %, ==, !=, >, <, >=, <=, ), . } |
| *106* | Follow ( <relop> ) | → | { numberlit, id, (, decimallit, stringlit, booleanlit } |
| *107* | Follow ( <not> ) | → | { ( } |
| *108* | Follow ( <logop\_end> ) | → | { and, or, ) } |
| *109* | Follow ( <logop> ) | → | { (, booleanlit, ! } |
| *110* | Follow ( <logop\_more> ) | → | { and, or, ) } |
| *111* | Follow ( <states> ) | → | { end, elseif, else } |
| *112* | Follow ( <statesTail> ) | → | { end, elseif, else } |
| *113* | Follow ( <control> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, end, elseif, else } |
| *114* | Follow ( <elseif\_statement> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *115* | Follow ( <else\_statement> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *116* | Follow ( <digit> ) | → | { +, -, \*, /, %, ), . } |
| *117* | Follow ( <digit\_tail> ) | → | { ), . } |
| *118* | Follow ( <digit\_op> ) | → | { ), . } |
| *119* | Follow ( <digit\_opTail> ) | → | { ), . } |
| *120* | Follow ( <switch> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *121* | Follow ( <choices> ) | → | { end } |
| *122* | Follow ( <choice\_num> ) | → | { end } |
| *123* | Follow ( <choice\_numtail> ) | → | { default } |
| *124* | Follow ( <choice\_str> ) | → | { end } |
| *125* | Follow ( <choice\_strtail> ) | → | { default } |
| *126* | Follow ( <default> ) | → | { end } |
| *127* | Follow ( <looping> ) | → | { file, number, decimal, string, boolean, id, write, read, switch, ++, --, if, for, while, do, Jump, Stop, end, elseif, else, return, END! } |
| *128* | Follow ( <for\_dec> ) | → | { id } |
| *129* | Follow ( <init> ) | → | { , } |
| *130* | Follow ( <for\_init> ) | → | { ==, !=, >, <, >=, <=, , } |
| *131* | Follow ( <cond\_for> ) | → | { , } |
| *132* | Follow ( <for\_inc> ) | → | { ) } |
| *133* | Follow ( <inc\_op> ) | → | { id, ) } |