

First Sets:

$\text{First}(\text{PROGRAM}) = \{\epsilon, \text{"fn"}\}$

$\text{First}(\text{DEFINITION-LIST}) = \{\epsilon, \text{"fn"}\}$

$\text{First}(\text{DEFINITION}) = \{\text{"fn"}\}$

$\text{First}(\text{PARAMETER-LIST}) = \{\epsilon, \text{ID}\}$

$\text{First}(\text{FORMAL-PARAMETERS}) = \{\text{ID}\}$

$\text{First}(\text{FORMAL-PARAM-TAIL}) = \{\epsilon, \text{","}\}$

$\text{First}(\text{ID-WITH-TYPE}) = \{\text{ID}\}$

$\text{First}(\text{TYPE}) = \{\text{"integer"}, \text{"boolean"}\}$

$\text{First}(\text{BODY}) = \{\text{"print"}, \text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{PRINT-EXPRESSION}) = \{\text{"print"}\}$

$\text{First}(\text{EXPRESSION}) = \{\text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{EXPRESSION-TAIL}) = \{\epsilon, \text{"=="}, \text{"<"}\}$

$\text{First}(\text{SIMPLE-EXPRESSION}) = \{\text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{SIMPLE-EXPRESSION-TAIL}) = \{\epsilon, \text{"or"}, \text{"+"}, \text{"-"}\}$

$\text{First}(\text{TERM}) = \{\text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{TERM-TAIL}) = \{\epsilon, \text{"and"}, \text{"*"}, \text{"/"}\}$

$\text{First}(\text{FACTOR}) = \{\text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{ARGUMENT-LIST}) = \{\epsilon, \text{"("}\}$

$\text{First}(\text{FORMAL-ARGUMENTS}) = \{\text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{"-"}, \text{ID}, \text{"if"}, \text{"("}\}$

$\text{First}(\text{FORMAL-ARGS-TAIL}) = \{\epsilon, \text{","}\}$

$\text{First}(\text{LITERAL}) = \{\text{B-LIT}, \text{I-LIT}\}$

Follows Sets:

Follows(PROGRAM) = {\$}

Follows(DEFINITION-LIST) = {\$}

Follows(DEFINITION) = {\$, "fn"}

Follows(PARAMETER-LIST) = {"("}

Follows(FORMAL-PARAMETERS) = {"("}

Follows(FORMAL-PARAM-TAIL) = {"("}

Follows(ID-WITH-TYPE) = {"", "("}

Follows(TYPE) = {"", ")", "print", B-LIT, I-LIT, "not", "-", ID, "if", "(" }

Follows(BODY) = {\$, "fn"}

Follows(PRINT-EXPRESSION) = {"print", B-LIT, I-LIT, "not", "-", ID, "if", "("}

Follows(EXPRESSION) = {\$, "fn", ")", "else", "and", "*", "/", "or", "+", "-",
"==", "<", ",", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(EXPRESSION-TAIL) = {\$, "fn", ")", "else", "==", "<", ",", "and", "*",
"/", "or", "+", "-", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(SIMPLE-EXPRESSION) = {"==", "<", \$, "fn", ")", "else", ",", "and",
"*, "/", "or", "+", "-", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(SIMPLE-EXPRESSION-TAIL) = {"==", "<", \$, "fn", ")", "else", ",", \$,
"and", "*", "/", "or", "+", "-", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(TERM) = {"or", "+", "-", "==", "<", \$, "fn", ")", "else", ",", "and", "*",
"/", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(TERM-TAIL) = {"or", "+", "-", "==", "<", \$, "fn", ")", "else", ",", "and",
"*, "/", B-LIT, I-LIT, "not", ID, "if", "("}

Follows(FACTOR) = {"and", "*", "/", "or", "+", "-", "==", "<", \$, "fn", ")",
"else", ",", B-LIT, I-LIT, "not", ID, "if", "("}

$\text{Follows}(\text{ARGUMENT-LIST}) = \{\text{"and"}, \text{"*"}, \text{"/"}, \text{"or"}, \text{"+"}, \text{"-"}, \text{"=="}, \text{"<"}, \$, \text{"fn"}, \text{"("}, \text{"else"}, \text{","}, \text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{ID}, \text{"if"}\}$

$\text{Follows}(\text{FORMAL-ARGUMENTS}) = \{\text{"("}\}$

$\text{Follows}(\text{FORMAL-ARGS-TAIL}) = \{\text{"("}\}$

$\text{Follows}(\text{LITERAL}) = \{\text{"and"}, \text{"*"}, \text{"/"}, \text{"or"}, \text{"+"}, \text{"-"}, \text{"=="}, \text{"<"}, \$, \text{"fn"}, \text{"("}, \text{"else"}, \text{","}, \text{B-LIT}, \text{I-LIT}, \text{"not"}, \text{ID}, \text{"if"}, \text{"("}\}$