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| **<MAIN\_FUNCTION>**

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| **<IO>**

| **<CONTROL\_FLOW>**

| <**COMMENTS>**

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| **<BRANCHING>**

| **<RETURN>**

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**<IO> →** **<INPUT\_STMT>** | **<OUTPUT\_STMT>**

**<CONTROL\_FLOW> → <CONDITIONAL>** | **<LOOPING>**

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**<EXPR\_STATEMENTS> → <INC\_STMT>** | **<DEC\_STMT>**

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**<BRANCHING> →** BREAK | CONTINUE

**<RETURN> →** PROC\_RETURN **<EXPRESSIONS>** | PROC\_RETURN **<VALUE>**

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| DATATYPE\_FLOAT

| DATATYPE\_CHAR

| DATATYPE\_STRING

| DATATYPE\_BOOL

| DATATYPE\_VOID

**<INPUT\_STMT> →** INPUT ID

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| PROC\_CALL ID LEFT\_PAREN RIGHT\_PAREN

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| **<ELSE\_STMT>**

**<IF\_STMT> →** IFLEFT\_PAREN **<REL\_EXPR>** RIGHT\_PAREN INDENT **<STATEMENTS>** DEDENT

|IFLEFT\_PAREN **<REL\_EXPR>** RIGHT\_PAREN **<STATEMENT>**

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| ELSE\_IF LEFT\_PAREN **<REL\_EXPR>** RIGHT\_PAREN **<STATEMENT>**

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| WHILE LEFT\_PAREN **<REL\_EXPR>** RIGHT\_PAREN **<STATEMENT>**

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| **<REL\_EXPR4>**

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**<POST\_INC> →** ID INC\_OP

**<PRE\_DEC> →** DEC\_OP ID

**<POST\_DEC> →** ID DEC\_OP

**<VALUE> → <CONST>** |ID

**<CONST> →** INT\_CONST | FLOAT\_CONST | CHAR\_CONST

| STRING\_CONST | **<BOOL\_CONST>** | NULL

**<BOOL\_CONST>** **→** BOOL\_CONST\_TRUE | BOOL\_CONST\_FALSE