COMP3290 Project Part 2

Simon Hartcher C3185790

Fails Lexically

```
+/+
  This program fails syntactically
+/+
program hello
  arrays empty[0];
  //lexical failure
  x ! = 2;
end program hello
```

Fails Syntactically

```
+/+
  This program fails syntactically
+/+
program syntax
  arrays empty[0];
  local x;

//syntax failure
  x = * 2;
end program syntax
```

Fails Semantically

```
+/+
  This program fails semantically
+/+
program semantic
  arrays empty[0];

//semantic failure
  x = y;
end program semantic
```

Working Programs

```
+/+
Hello world program
+/+
program helloworld
local empty;

proc hello
   printline "hello, world!";
end proc hello

call hello;
end program helloworld
```

```
+/+
    Count to ten
+/+
program count
    local x;

proc main
    x = 0;
    loop printindex
        exit printindex when x >= 10;

    x = x + 1;
    printline x;
    end loop printindex
end proc main

call main;
end program count
```

Simple Program

```
+/+
  This is a simple program
+/+
program hello
  arrays empty[0];

printline "hello, world!";
end program hello
```