

CSci 340, Spring 2003, Project 1

This project is due *Friday, February 14* at 11:20am. To submit your final solution, run the “handin cs 340 2” command and submit a paper copy of your well-documented, well-written code for evaluation.

Your job in this project is to complete the program of Project 0 to construct an interpreter, which executes a program given on the command line.

```
unix% cat count.ada
procedure Count is
  I : Integer;
  N : Integer;
begin
  Get(N);
  I := 0;
  while I /= N loop
    I := I + 1;
    Put(N);
  end loop;
end Count;
unix% ./main count.ada
? 4
1
2
3
4
```

If the input program has a syntax or type error, it should print an error message instead.

To begin work on this assignment, run the command “getcs 340 2”. This will place many useful files into your CS340/Lab2 directory, including some slightly modified files from Project 0 and interpreter.adb. To copy your solution from Project 0 into this directory, run the following command.

```
unix% cp ~/CS340/Lab1/{parse,typecheck}.adb ~/CS340/Lab2
```

Your submitted solution should be in the parse.adb, typecheck.adb, and interpreter.adb files.

The following is the grading scale that will be used to grade Project 0 and Project 1 together.

30 pts	parsing the text
30 pts	building the abstract syntax tree
20 pts	type checking
40 pts	executing the program