CISC 458 Tutorial 3

Finishing Phase I

Revised by Ahmed Harby from Previous Versions Thursday, February 2, 2023

What to Hand In

What to Hand In

- The marking scheme can be found on OnQ under "Project Requirements".
- Your (group) submission must include:
 - Documentation
 - Source Code
 - Test Suite
 - A README File

Documentation

- You must hand-in a complete documentation for the modifications you have made to the scanner/screener.
- Your documentation must include:
 - The location of changes
 - Where did a change occur? Where was something added?
 - Explanations/Details of the changes
 - How did you change it? How was it implemented?
 - Justification for the changes
 - Why did you change it? How does the change make it more like a Quby compiler?
- Documentation for the Test Suite is also necessary:
 - What does each test file do?
 - Expected output or error? (success or fail)

Documentation Options

- Preferred: In separate text files (one for general changes, one for test suites)
- Optional: For Test Suite files:
 - In filename (e.g. old_comment__fail)
 - As a comment in file (not when testing commenting!)

Documentation: Change Example

• Acronym: WHEW (Where? How? Explain Why?)

Where? In stdIdentifiers, in the keywords section.

How? Removed keywords until ...

- Include code snippet or describe it
- What else needed to be changed as a result? (update parser.pt)

Why? until ... no longer recognized as keywords in Quby

Source Code

- A complete copy of the modified source code must be submitted (the ptsrc directory).
- Make sure to run make clean before submitting.

Test Suite

- A set of sufficient tests to confirm that your scanner/screen works as required.
- Suggestion: Unit Testing
 - Small, isolated, specific tests
 - Test only one thing per file
 - Design cases that also cover error cases
 - Do MANY to ensure coverage
- Provide an argument for the completeness for your test suite in your documentation, as well as any other important information.

Test Suite Contents

- Each test case should include:
 - Documentation: Purpose of the test case
 - See previous slides for more details.
 - The input program to the Quby compiler
 - ssltrace output from the compiler (-e)
- You may want to write a script to automate this process.

README

- A small file containing the following information:
 - Your group account (e.g. cisc458x)
 - The name, ID#, and NetID of each student in the group.
- If your directory structure and file names are not very obvious, explain them here.

What to Hand In

- Hand in electronic copies only.
- We can handle most common formats, but if you are using something exotic, let us know ASAP, as you may have to reformat.
 - Suggestion: Use files that can be opened on Linux running on the Queen's computers.
- Short and concise is preferable to long essays . . .
- We don't mark grammar or spelling, but please make it understandable and clear.

When to Hand it In

When to Hand In

- NO LATE SUBMISSIONS without a convincing and documented explanation.
- Explanations should be sent to Dr. Karim, preferably before the deadline.

How to Hand it In

Suggested Directory Structure

mysub

- ptsrc/ (complete source code)
- README. {txt,pdf,...}
- documentation.{txt,pdf,...}
- testSuite/
 - testName.pt (the Quby test source file)
 - testName.eOutput (ssltrace output using -e flag)
 - testName.txt (documentation for that test case)
 - Purpose of the test case
 - Result: expected vs actual output
 - In most cases, can be merged with testName.pt using clear filenames and comments.
- Optional: autorum (optional script to run the test cases)
- Note: Using the exisitng ptsrc/test/ directory instead of testSuite/ is fine, but you must indicate which are the test cases!

Directory Structure Tips

Tip: Instead of copying ptsrc to the submission directory mysub, create a symbolic link:

• ../ptsrc should be path to the ptsrc directory.

```
cd mysub
ln -s ../ptsrc
```

How to Submit

• To submit, you must use the turnin command:

```
turnin-cisc458 -v mysub
```

- -v: flag for verbose output show all the files you have submitted to ensure they are all there
- mysub: is the folder containing all your files, as described in the previous slide
- There is no need to compress your files; turnin will take care of this for you.
- turnin also works with symbolic links (no need for hard copy of file to be in mysub directory).

Expected Output of turnin

```
Submitted files:
phase1-cisc458x/
phase1-cisc458x/mysub/
phase1-cisc458x/mysub/ptsrc/parser/
phase1-cisc458x/mysub/ptsrc/parser/Makefile
phase1-cisc458x/mysub/ptsrc/parser/parser.pt
phase1-cisc458x/mysub/ptsrc/parser/parser.ssl
phase1-cisc458x/mysub/ptsrc/parser/prints.pt
phase1-cisc458x/mysub/ptsrc/parser/scan.ssl
phase1-cisc458x/mysub/ptsrc/parser/stdIdentifiers
phase1-cisc458x/mysub/ptsrc/parser/scan.def
phase1-cisc458x/mysub/ptsrc/parser/parser.def
<Additional source files, docs, and test suite>
```

Note: cisc458x will be replaced by your group account.

Reminders

- Document, Document!
- Make sure your Test Suite is complete and documented!
- Make sure your compiler actually compiles using make scanner!
 - We will be using your scanners to run on our own tests.
- If you face problems with turnin, let us know immediately!

Next Tutorial

• Introduction to Phase 2