CoCoA-5 - Feature #673

Error message: I was expecting...

11 Mar 2015 13:10 - John Abbott

Status: Closed Start date: 11 Mar 2015

Priority: Normal Due date:

Assignee: John Abbott % Done: 100%

Category:enhancing/improvingEstimated time:1.88 hourTarget version:CoCoA-5.3.0Spent time:1.80 hour

Description

The generic error message

ERROR: I was expecting an identifier by found "weights"

should be improved, e.g. to explain why weights is unsuitable (because it's a keyword).

Related issues:

Related to CoCoA-5 - Design #668: Remove keyword "weights"?

Closed 05 Mar 2015

Related to CoCoA-5 - Support #530: Interpreter error message: "for" with miss...

Rejected 09 Apr 2014

History

#1 - 11 Mar 2015 13:14 - John Abbott

- Estimated time set to 3.00 h

The relevant source code is Parser.H:156

The following rule may help identify the "type" of a parser token:

- starts with a letter --> keyword or identifier
- starts with a digit --> number
- starts with double quote --> string (literal)
- otherwise symbol/operator

#2 - 26 Nov 2015 11:10 - John Abbott

The original report did not contain an example of input which produces the unhelpful error message. I think the following illustrates the problem:

record[for := 1];

Curiously, this input evidently confuses the parser because it produces two very similar error messages -- probably not worth fixing.

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#3 - 24 Oct 2019 23:00 - John Abbott

- Status changed from New to Resolved
- Assignee set to John Abbott
- Target version changed from CoCoA-5.?.? to CoCoA-5.3.0
- % Done changed from 0 to 60

Not really sure how to do this cleanly, so I have "hacked" the class Token in Lexer.H (near line 243) by adding a new mem fn LexemeClass. The impl is in Lexer.C near line 44. This new mem fn is used only in the ctor for UnexpectedTokenException in Parser.H near line 158.

A quick check suggest that it works acceptably. Here are the tests I tried:

```
record[for := 1];
record[:= 1];
record[1];
record["1"];
record[ <EOF>
```

Not yet CVS-ed. I'l try a few more ad hoc tests first.

#4 - 24 Oct 2019 23:11 - John Abbott

CVS-ed. Also CoCoA-5 tests pass :-)

#5 - 25 Oct 2019 15:12 - John Abbott

- Status changed from Resolved to Feedback
- % Done changed from 60 to 90

I have tried some more tests. Mostly it seems OK, but it is possible to confuse the parser:

```
record['
record[''
record[<<</pre>
```

Mind you, anyone who types in any of the above is just being a vandal (mmm, me too?)

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#6 - 26 Oct 2019 08:47 - Anna Maria Bigatti

John Abbott wrote:

Mind you, anyone who types in any of the above is just being a vandal (mmm, me too?)

Now called "ethical hacker" ;-)

#7 - 13 Feb 2020 16:39 - John Abbott

- Status changed from Feedback to Closed
- % Done changed from 90 to 100
- Estimated time changed from 3.00 h to 1.88 h

Seems OK now. No doubt the school in Vietnam will be an "interesting" proving ground. Closing.

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