| Evaluation Item | Unacceptable (0) | Acceptable (1) | Comments |
|---|---|---|---|
| **Verifiability**<br>Note: if this item is "unacceptable", the rest of the assignment will not be marked. | The submission lacks a script for validating the parser, or the script provided could not be used to verify the parser. | The submission includes (a) a set of tests for verifying the parser and (b) a script to build your parser and to parse those tests. That script can be used on a lab machine to verify the parser outputs. | • The script and commands work as described.<br><br><br><br><br>1/1 |

| Evaluation Item | Unacceptable (0) | Marginal (1-2) | Proficient (3) | Comments |
|---|---|---|---|---|
| **Correctness** | The extension has broken the compiler's ability to generate code in many cases. | The extension has caused the compiler to fail in edge cases. Invalid code may be generated if the input is erroneous. | The compiler continues to generate legal code with the extension enabled. When it encounters an error in the input, an error is reported. | • There should also be test cases to check for illegitimate input (to see if the typechecker works properly).<br>• I tried entering erroneous input into your website (https://flatliner.herokuapp.com/) and I did get errors in some cases (e.g. "True = a"). Therefore, I am deducting 0.5 instead of 1 despite the lack of failing test cases. I appreciate the effort that went into having the website running because it made the user experience of checking your compiler much better.<br><br>2.5/3 |

| Robustness | The extension only works on a very narrow case. | The extension fails to account for some edge cases or rules out some common cases. | The extension is capable of handling unexpected or incorrect input gracefully. | • Because examples containing incorrect input have not been provided, it is not clear whether the extension is capable of handling such cases. |
| --- | --- | --- | --- | --- |
| | | | | 2.5**/3** |
| **Evaluation Item** | **Unacceptable (0)** | **Marginal (1-2)** | **Proficient (3)** | **Comments** |
| **Documentation** | The extension is not clearly identified or the document does not explain its purpose. | The extension is identified clearly, but the documentation fails to clearly explain how it is implemented or why it is interesting. | The extension is identified clearly. The document explains what it does, how it is implemented, and why it is interesting. | • The extensions are identified clearly, and an explanation of how these extensions were supported and why it was challenging or interesting is there. |
| | | | | 3**/3** |

**Additional Notes:**
- IR for the type extensions have been generated.
- The compiler still outputs 32 shift/reduce conflicts, indicating grammar ambiguity which should have been resolved by now. Therefore, I am deducting 0.5 marks for this.

```
WARNING: Token 'WS' defined, but not used
WARNING: There are 8 unused tokens
Generating LALR tables
WARNING: 32 shift/reduce conflicts
test_assignments --------------------- Passed
test_loops ----------------------- Passed
```

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**Score:**     8.5 **/10**