CSE 341 – Programming Languages

HW3 Report

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Report:

- If the command line argument is given, it reads from there, and if not, it continues as an interpreter.
- Writes outputs to output.txt.
- Assignment is implemented. Variable can be created(set ID VALUE) or updated(set ID VALUE).
- List representation is like (1 2 3 …).
- EXPI -> (if EXPB EXPLISTI). This is causing ambiguity. Because EXPI should return an integer value. It is not possible for EXPI here to return integer. Therefore, if is arranged as follows.
  EXPI -> (if EXPB EXPI)
  EXPI -> (if EXPB EXPI EXPI)
- Since there is no while keyword in our lexicon, while could not be implemented.
- EXPI -> (for (Id EXPI EXPI) EXPLISTI). This is causing ambiguity. Because EXPI must return an integer value. It is not possible in this statement. Therefore, it has not been for implemented.
- EXPI -> (deffun Id IDLIST EXPLISTI). This is causes ambiguity. Because EXPI must return an integer value. It is not possible in this statement. For this reason, deffun was not implemented.