minCParser built with JavaScript (Harmony)

Notes

- I opted to include "EOF" as a valid file (empty files are allowed)
- Since it's built with ES6, there is a build process
- Please try to use a UTF8 supported terminal if possible

Directories/Files

```
gulpfile.js
   input_files
___cs4318_5331_test_inputs
  minCLexer.jsminCLexerDriver.js
    minCLexerInputTest.js
minCLexerTest.js
    test.c
  — utils.js
  — validate-tokens.js
dist
     ParserConstants.js
       - minCParser.js
       — symbol-table.js
    __ tree.js
   - img
└─ tree.png
- minCParserDriver.js
      - ParserConstants.js
       - minCParser.jison
      — minCParser.js
       - symbol-table.js
       - tree.js
       - astTest.js
       - input_files
       - minCParserTest.js
       - npm-debug.log

    symbolTableTest.js

package.json
```

- minCParser/test/ is for unit tests
- minCParser/src/ contains the actual file before it's transpied
- minCParser/dist/ contains files that browsers (nowadays) can render

Usage

- run npm run init in the project root directory
- use node minCParserDrive.js filename to run a file

Examples

```
sangm ~/minC/minCParser assignment2-turnin x
rode minCParserDriver.js test0.mC
int main(int argc, string argv) {
  int a;
  int b;
  void foo[200];
}
```

Symbol	Туре	Scope
main	FUNCDECL int	global
argc	int	main
argv	 string	main
a	int	main
b	int	main
foo	ARRAY_DECL void	main

PROGRAM

```
• DECL_LIST
• • FUNCDECL
• • • TYPESPECIFIER int (1,0)
• • • ID main (1,4)
• • • FORMAL_DECL_LIST
• • • • FORMAL_DECL
• • • • • TYPESPECIFIER int (1,9)
• • • • • ID argc (1,13)
• • • • FORMAL_DECL
• • • • • TYPESPECIFIER string (1,19)
• • • • • ID argv (1,26)
• • • FUNCBODY
· · · · LOCALDECLLIST
· · · · · VARDECL
• • • • • • TYPESPECIFIER int (2,4)
• • • • • ID a (2,8)
· · · · · VARDECL
• • • • • • TYPESPECIFIER int (3,4)
• • • • • ID b (3,8)
• • • • • ARRAY_DECL
• • • • • TYPESPECIFIER void (4,4)
• • • • • ID foo (4,9)
• • • • • • INTCONST 200 (4,13)
• • • • STATEMENTLIST EMPTY_STATEMENT (1,32)
sangm ~/minC/minCParser assignment2-turnin x
-
```