Compiling and Running

Functionality

The program provides the capability to read a java class file and construct a call tree for a chosen method.

The class file is passed as an argument to the program and you will be prompted to choose a method from a list of methods that are available in that class. Once a method has been chosen, the call tree for the method will be shown as a command line output.

If the method being called belongs to another class, then the program will try to parse the corresponding class file to obtain the subsequent method calls.

If the program detects recursive calls then it will terminate the call tree branch and indicate recursion with a [RECURSIVE] tag next to the call tree branch.

Design

The following files were provided to be used with the program.

- ClassFile.java - Modified
- ClassFileParser.java - Unused
- ClassFileParserException.java
- ConstantPool.java - Unmodified
- CPEntry.java – Modified
- Instruction.java – Unmodified
- Opcode.java - Unmodified

Extra classes added

- FieldInfo.java
- MethodInfo.java
- AttributeInfo.java
- CodeAttributeInfo.java
- SM Assignment2.java

Testing

Quality

Referencing