

```
1 package simpleexpr;
2
3 import org.antlr.v4.runtime.CharStream;
4 import org.antlr.v4.runtime.CharStreams;
5 import org.antlr.v4.runtime.CommonTokenStream;
6 import org.antlr.v4.runtime.Token;
7 import org.antlr.v4.runtime.tree.ParseTree;
8
9 import java.io.FileInputStream;
10 import java.io.IOException;
11 import java.io.InputStream;
12
13 public class SimpleExprTest {
14     public static void main(String[] args) throws IOException {
15         InputStream is = System.in;
16
17         String file;
18         if (args.length > 0) {
19             file = args[0];
20             is = new FileInputStream(file);
21         }
22
23         CharStream input = CharStreams.fromStream(is);
24         SimpleExprLexer lexer = new SimpleExprLexer(input);
25
26         CommonTokenStream tokens = new CommonTokenStream(lexer);
27
28         SimpleExprParser parser = new SimpleExprParser(tokens);
29         ParseTree tree = parser.prog();
30
31         for (Token token : tokens.getTokens()) {
32             System.out.println(token);
33         }
34         System.out.println(tree.toStringTree(parser));
35     }
36 }
37
```