ASTApply.java

```
1 package AST;
 3 import java.util.List;
9 public class ASTApply implements ASTNode {
11
      private ASTNode expFun;
12
      private List<ASTNode> expArgs;
13
14
      public ASTApply(ASTNode expFun, List<ASTNode> expArgs){
15
          this.expArgs = expArgs;
          this.expFun = expFun;
16
17
      }
18
19
      @Override
20
      public IValue eval(Environment e) {
21
          IValue v1 = expFun.eval(e);
22
          if(!(v1 instanceof Closure)) {
23
              throw new Error("Invalid function");
24
          }
25
          Closure c1 = (Closure)v1;
          Environment e1 = c1.getEnv();
26
          Environment e2 = e1.beginScope();
27
          for(int i = 0; i < expArgs.size(); i++) {</pre>
28
29
               IValue v2 = expArgs.get(i).eval(e);
30
              e2.assoc(c1.getArg().get(i), v2);
31
32
          IValue v3 = c1.getExp().eval(e2);
33
          return v3;
34
      }
35
36 }
37
```