

ASTWhile.java

```

1 package AST;
2
3 import iValue.IValue;
4
5
6
7 public class ASTWhile implements ASTNode {
8
9     private ASTNode cond;
10    private ASTNode exp;
11
12    public ASTWhile(ASTNode cond, ASTNode exp) {
13        this.cond = cond;
14        this.exp = exp;
15    }
16
17    @Override
18    public IValue eval(Environment e) {
19        IValue v1 = cond.eval(e);
20        if(v1 instanceof VBool) {
21            boolean c = ((VBool) v1).get();
22            if(c) {
23                exp.eval(e);
24                return new ASTWhile(cond,exp).eval(e);
25            }else {
26                return new VBool(false);
27            }
28        }else {
29            throw new Error("Not a valid while condition");
30        }
31    }
32
33 }
34
35 }
36

```