## rightTo3.java

```
* Generated by SAE Prolog - www.opal-project.de
package predicates;
import saere.*;
public final class rightTo3 implements Goal {
    // variables to control/manage the execution this predicate
    private int clauseToExecute/* = 0; */;
    private int goalToExecute/* = 0; */;
    private GoalStack goalStack = GoalStack.EMPTY_GOAL_STACK;
    // variables related to the predicate's state
    private Term arg0;
    private Term arg1;
    private Term arg2;
    final private State initialArgOstate;
    final private State initialArg1state;
    final private State initialArg2state;
    // variables to store clause local information
    private Term clv0;
   public rightTo3(final Term arg0, final Term arg1, final Term arg2) {
        this.arg0 = arg0;
        this.arg1 = arg1;
        this.arg2 = arg2;
        this.initialArgOstate = (argO).manifestState();
        this.initialArg1state = (arg1).manifestState();
        this.initialArg2state = (arg2).manifestState();
    }
    public void abort() {
        if (this.initialArgOstate != null)
            this.initialArgOstate.reincarnate();
        if (this.initialArg1state != null)
            this.initialArg1state.reincarnate();
        if (this.initialArg2state != null)
            this.initialArg2state.reincarnate();
        this.goalStack = goalStack.abortPendingGoals();
    }
    public boolean choiceCommitted() {
        return false;
    }
    public boolean next() {
```

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        eval_clauses: do {
            switch (this.clauseToExecute) {
            case 0: {
                if (this.clause0()) {
                    return true;
                // this clause contains no "cut"
                // prepare the execution of the next clause
                this.goalToExecute = 0;
                this.clauseToExecute = 1;
            case 1: {
                // tail recursive clause with last call optimization
                if (this.clause1()) {
                    this.clv0 = null;
                    this.goalToExecute = 0;
                    this.clauseToExecute = 0;
                    continue eval_clauses;
                this.abort();
                return false;
        } while (true);
   private boolean clause0() {
        switch (this.goalToExecute) {
        case 0: {
            this.goalStack = goalStack.put(UndoGoal.create
(arg0, arg1, arg2));
            if (arg2.unify(list(arg0, list(arg1, variable())))) {
                this.goalToExecute = 1;
                return true;
            }
        case 1: {
```

}

this.goalStack = goalStack.abortTopLevelGoal();

this.goalStack = goalStack.put(new Unify2(arg2, list(arg0,

return false;

}

case 0: {

//

//

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list(arg1, variable())));
//
//
        case 1: {
//
            boolean succeeded = this.goalStack.peek().next();
            if (!succeeded) {
//
//
                this.goalStack = goalStack.drop();
//
                return false;
//
//
            this.goalToExecute = 1;
//
            return true;
//
        default:
            // should never be reached
            throw new Error("internal compiler error");
        }
    }
    private boolean clause1() {
        eval goals: do {
            switch (this.goalToExecute) {
            case 0: {
                // [arg(2), clv(0)]
                this.clv0 = variable();
                this.goalStack = goalStack.put(new Unify2(arg2, list
(variable(), clv0)));
            case 1: {
                boolean succeeded = this.goalStack.peek().next();
                if (!succeeded) {
                    this.goalStack = goalStack.drop();
                    return false;
                // fall through ... 2
            }
            case 2: {
                // tail call with last call optimization
                this.arg0 = arg0;
                this.arg1 = arg1;
                this.arg2 = clv0;
                this.goalStack = GoalStack.EMPTY_GOAL_STACK;
                return true;
        } while (true);
```

}