```java
package player.playeragent;

import edu.neu.ccs.demeterf.demfgen.lib.*;
import edu.neu.ccs.demeterf.*;
import edu.neu.ccs.evergreen.ir.Relation;
import gen.*;

public class Shannon extends Bc
{

        Constraint combine(Constraint c, Weight w, RelationNr r, List<Variable> lv, Literal l)
        {
                if (lv.contains(l.var))
                {
                        int index = lv.index(l.var);
                        Relation toReduce = new Relation(3, r.v);
                        int relation = toReduce.reduce(index, l.value.sign());
                        return new Constraint(w, new RelationNr(relation), lv);
                }
                else
                {
                        return new Constraint(w, r, lv);
                }
        }

        static RawMaterial shannon(RawMaterial c, Literal l)
        {
            return new Traversal (new Shannon()).<RawMaterial>traverse(c, l);
        }
}
```