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AND.java

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```
package logique;

public class AND extends OperateurBinaire {

    public AND(Expression exp1, Expression exp2) {
        super(exp1, exp2);
    }

    public boolean evaluate() {
        if (!membres[0].evaluate())
            return false;
        else
            return membres[1].evaluate();
    }

    protected String printOperateur() {
        return " AND ";
    }

}
```

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Constante.java

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```
package logique;

public abstract class Constante implements Expression {

}
```

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Expression.java

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```
package logique;

public interface Expression {

    public boolean evaluate();

    public String print();

}
```

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FALSE.java

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```
package logique;

public class FALSE extends Constante {

    @Override
    public boolean evaluate() {
        return false;
    }

    @Override
    public String print() {
        return "FALSE";
    }

}
```

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Main.java

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```
package logique;

public class Main {

    /**
     * @param args
     */
    public static void main(String[] args) {
        Expression exp1 = new NOT(new AND(new FALSE() , new TRUE()));
        System.out.println(exp1.print()+" donne "+exp1.evaluate());
    }
}
```

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MainObserver.java

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```
package logique;

public class MainObserver {
    public static void main(String[] args) {

        Expression exp1 = new NOT(new AND(new FALSE(), new TRUE()));
        Expression exp2 = new NOT(new OR(new FALSE(), new TRUE()));
        Expression exp3 = new AND(new FALSE(), new TRUE());
        Expression exp4 = new OR(new FALSE(), new TRUE());
        SuperCalculateur sc = new SuperCalculateur();
        sc.ajouterExpression(exp1);
        sc.ajouterExpression(exp2);
        sc.ajouterExpression(exp3);
        sc.ajouterExpression(exp4);
        SuiviDeCalcul co = new SuiviDeCalcul();
        sc.attach(co);
        sc.lancerCalcul();
    }
}
```

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NOT.java

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```
package logique;

public class NOT extends OperateurUnaire {

    public NOT(Expression exp) {
        super(exp);
    }

    @Override
    public boolean evaluate() {
        return !membres[0].evaluate();
    }

    public String print() {
        return "NOT("+membres[0].print()+)";
    }
}
```

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Observer.java

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```
package logique;

public abstract class Observer {
    abstract public void update();
}
```

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OperateurBinaire.java

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```
package logique;

public abstract class OperateurBinaire extends Operateur {
    public OperateurBinaire(Expression exp1, Expression exp2) {
        membres = new Expression[2];
        membres[0] = exp1;
        membres[1] = exp2;
    }
    public String print() {
        return "("+membres[0].print()+ printOperateur() + membres[1].pri
nt()+")";
    }
    protected abstract String printOperateur();
}
```

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Operateur.java

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```
package logique;

public abstract class Operateur implements Expression {
    Expression[] membres;
}
```

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OperateurUnaire.java

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```
package logique;

public abstract class OperateurUnaire extends Operateur {
    public OperateurUnaire(Expression exp){
        membres = new Expression[1];
        membres[0] = exp;
    }
}
```

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OR.java

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```
package logique;

public class OR extends OperateurBinaire {

    public OR(Expression exp1 , Expression exp2) {
        super(exp1, exp2);
    }

    public boolean evaluate() {
        if (membres[0].evaluate())
            return true;
        else
            return membres[1].evaluate();
    }

    protected String printOperateur() {
        return " OR ";
    }
}
```

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Subject.java

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```
package logique;

import java.util.ArrayList;

public abstract class Subject {
    ArrayList observers;

    public void attach(Observer obs) {
        observers.add(obs);
    }

    public void detach(Observer obs) {
        observers.remove(obs);
    }

    public void notifiyAllObs() {
        for (Object ob : observers) {
            ((Observer)ob).update();
        }
    }

    public Subject() {
        observers = new ArrayList();
    }
}
```

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SuiviDeCalcul.java

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```
package logique;

public class SuiviDeCalcul extends Observer {

    public void update() {
        System.out.println("Calcul Terminé");
    }

    public SuiviDeCalcul() {
        super();
    }
}
```

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SuperCalculateur.java

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```

package logique;

public class SuperCalculateur extends Subject {
    Expression[] exp;
    int cursor;

    public void ajouterExpression(Expression ex) {
        if (cursor < exp.length)
            exp[cursor++] = ex;
    }

    public void lancerCalcul() {
        // Une boucle infinie vide la pile exp et evalue les expressions
        while (cursor > 0) {
            Expression current = exp[--cursor];
            current.evaluate();
            // TODO: Ici il faudrait que le SuperCalculateur annonce
            ces
            // observateurs, qu'il a fini un calcul
            notifyAllObs();
        }
    }

    public SuperCalculateur() {
        super();
        exp = new Expression[10];
        cursor = 0;
    }
}

```

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TRUE.java

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```

package logique;

public class TRUE extends Constante {

    public boolean evaluate() {
        return true;
    }

    public String print() {
        return "TRUE";
    }
}

```