

ON EST ENCORE UN PEU PLUS HÉRI

LINK TO THE PATH

```
interface Direction{
    public int toInt();
    public String toString();
};

class North implements Direction{
    public int toInt(){ return 1;};
    public String toString(){ return "north";};
};

class East implements Direction{
    public int toInt(){ return 2;};
    public String toString(){ return "east";};
};

class South implements Direction{
    public int toInt(){ return 3;};
    public String toString(){ return "south";};
};

class West implements Direction{
    public int toInt(){ return 4;};
    public String toString(){ return "west";};
};

public class Main {
    public static final String label(Direction d) {
        return d.toString();
    }

    public static void main(String args[]) {
        System.out.println(label(new East()));
        System.out.println(label(new West()));
    }
}
```





MAGNET 2-DUALS - THOUGHTS

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ON EST EN OOP : ON A DU POLYMORPHISME PAR HÉRITAGE



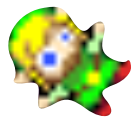
```
interface Direction{
    public int toInt();
    public String toString();
};
class North implements Direction{
    public int toInt(){ return 1;};
    public String toString(){ return "north";};
};
class East implements Direction{
    public int toInt(){ return 2;};
    public String toString(){ return "east";};
};
class South implements Direction{
    public int toInt(){ return 3;};
    public String toString(){ return "south";};
};
class West implements Direction{
    public int toInt(){ return 4;};
    public String toString(){ return "west";};
};

public class Main {
    public static final String label(Direction d) {
        return d.toString();
    }

    public static void main(String args[]) {
        System.out.println(label(new East()));
        System.out.println(label(new West()));
    }
}
```

LINK TO THE PATH

QUE SE PASSE-T-IL SI ON RÉCUPÈRE LES DIRECTIONS D'UNE LIB



```
/** lib tierce */
interface Direction{
    public int toInt();
};
class North implements Direction{
    public int toInt(){ return 1;};
};
class East implements Direction{
    public int toInt(){ return 2;};
};
class South implements Direction{
    public int toInt(){ return 3;};
};
class West implements Direction{
    public int toInt(){ return 4;};
};

/** notre code */
interface DirectionImprove{
    public String toString();
};
class NorthImprove extends North implements DirectionImprove{
    public String toString(){ return "north";};
};
class EastImprove extends North implements DirectionImprove{
    public String toString(){ return "east";};
};
class SouthImprove extends North implements DirectionImprove{
    public String toString(){ return "south";};
};
class WestImprove extends North implements DirectionImprove{
    public String toString(){ return "west";};
};
```