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";};
};
```





MIAGE M2 - QUALITÉ DU SI - THOMAS HAESSLÉ

Les encodages initiaux sont complexes à maintenir!

Composition over inheritance: "Favor 'object composition' over 'class inheritance'." (Gang of Four 1995:20)

LINK TO THE PATH

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/** lib tierce */



Les encodages initiaux sont complexes à maintenir!

Composition over inheritance: "Favor 'object composition' over 'class inheritance'." (Gang of Four 1995:20)

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";}; **}**;

LINK TO THE PATH

EN PASSANT PAR JAVA 15 (SEALED), JAVA 14 (RECORD) ET JAVA 17 (EXHAUSTIVITÉ)

```
sealed interface Direction {
    record North() implements Direction {}
    record East() implements Direction {}
    record South() implements Direction {}
    record West() implements Direction {}
}

public static final String label(Direction d) {
    return switch(d){
        case Direction.North n -> "north";
        case Direction.East e -> "east";
        case Direction.South s -> "south";
        case Direction.West w -> "west";
}
```