





LESSON 1

**LINK TO THE PATH**

```
const label = (d : Direction) : string => {  
  switch (d ){  
    case "North": return "north";  
    case "East": return "east";  
    case "South": return "south";  
    //case "West": return "west";  
  }  
}
```

Function lacks ending return statement and return type  
does not include 'undefined'.

**On peut valider dès la compilation qu'on traite TOUS LES valeurs valides!!!**





Compilation Error



MAGNÉT-QUALITÄT S-THOMAS & SÖHN

# LINK TO THE PATH

## LES UNIONS



```
const label = (d : Direction) : string => {  
  switch (d ){  
    case "North": return "north";  
    case "East": return "east";  
    case "South": return "south";  
    //case "West": return "west";  
  }  
}
```

Compilation Error

Function lacks ending return statement and return type does not include 'undefined'.

**On peut valider dès la compilation qu'on traite TOUTES LES valeurs valides !!!**

# LINK TO THE PATH

ET EN JAVA? 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";  
    }  
}
```