


Pattern Matching

en Java

Avant Java 17



```
public String toUpperCaseWithoutMatchingPattern(Object obj)
{
    if (obj instanceof String) {
        String s = (String) obj;
        return s.toUpperCase();
    }
    return null;
}
```

Depuis Java 17



```
public String toUpperCaseWithMatchingPattern(Object obj)
{
    if (obj instanceof String s) {
        return s.toUpperCase();
    }
    return null;
}
```

Avant Java 21




```
public double getTotalWithoutMatchingPattern(List<Operation> operations)
{
    double total = 0.0;

    for (Operation operation : operations) {
        if (operation instanceof Virement) {
            Virement v = (Virement) operation;
            total -= v.getMontant();
        } else if (operation instanceof Depot) {
            Depot d = (Depot) operation;
            total += d.getMontant();
        } else if (operation instanceof Retrait) {
            Retrait r = (Retrait) operation;
            total -= r.getMontant() * 1.01;
        } else {
            throw new IllegalArgumentException("Type d'opération inconnu : " + operation.getClass());
        }
    }

    return total;
}
```

Depuis Java 21



```
public double getTotalWithPatternMatching(List<Operation> operations) {  
    double total = 0.0;  
  
    for (Operation operation : operations) {  
        total += switch (operation) {  
            case Virement v -> -v.getMontant();  
            case Depot d     -> d.getMontant();  
            case Retrait r   -> -r.getMontant() * 1.01;  
            default          -> throw new IllegalArgumentException("Type d'opération inconnu : " +  
                                                                    operation.getClass());  
        };  
    }  
  
    return total;  
}
```

**Apprends,
Applique,
Partage.**
