Java Basics to Web Service

- → Basics ⎫ 4
- → OOP ⎬
- → Web Service (Jax-Rs, MapStruct) →
- → Testing (Mockito) → 1

Day 1
- → Selection (if, switch)
- → Loops (for, while, do while)
- → Strings
- → Arrays

```
if ( bool-expr ) {

    _____          (T)

} else if ( bool-expr ) {

    _____          (F, T)

}
⋮

else {

    _____          (all false)
}
```

Bool Expr

>, <, >=, <=
==, !=

Logical Operators

bool-expr && bool-expr

~ || ~

! bool-expr

```
switch ( expr ) {

    case value1 :
        _____
        break;

    case value2 :
        _____
        break;
    ⋮
    default :
        _____
}
```

```
switch ( expr ) {

    case value1 -> _____ ;

    case value2 -> _ ~ ;
    ⋮

    default -> _ ~ ;

}
```

---

x = bool-expr ? value if true : value if false

day

1 — 5 ⟹ Work - day
6,7 ⟹ off - day
else ⟹ Invalid

---

day

7, 1-4 ⟹ Work - day
5,6 ⟹ off - day
else ⟹ Invalid

---

number

Odd ← → Even

---

what's 7 * 3?
≫ 10   ≫ 21
↙   ↘ Correct
Wrong

Math.random()

0 →(0.5 0.7³)→ 1
*10
0   5 7.3 10

Math.floor ( )
Math.ceil ( )

int x = (int) 7.3 ;

---

while (bool-expr) {
      (true)

}
      (false)

do {
      true

} while (bool-expr) ;
      (false)

---

① → ② x<=10 ← x++ ④
x=1

for (init ; bool-expr ; change) {
③
      (true)

}
      (false)

break

Continue

what's 3 * 5?
≫ 15
what's 2 * 4?
≫ 8
what's 7* 10?
≫
|
|
≫ 13
Game Over!

what's 7 * 3?

≫ 10

Try again, what's 7*3?

≫ 10

Try again, what's 7*3?

⋮

≫ 21

Correct