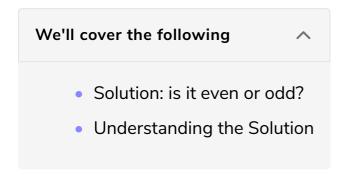
### Solution Review: Even or Odd

In this review, the solution of the challenge 'Even or Odd' from the previous lesson is provided.



## Solution: is it even or odd? #

```
class HelloWorld {
  public static void main( String args[] ) {
    int x = 3;
    String answer;
    if (x % 2 == 0) {
        answer = "even";
    }
    else {
        answer = "odd";
    }
    System.out.println(answer);
}
```

# Understanding the Solution #

**Reasoning**: An **even** number, when divided by **2**, will give a remainder **0**, whereas an **odd** number will give a remainder **1**.

#### • Line 5

- The evaluation condition for the **if** statement is in this line.
- The **modulus** of x is taken with **2** in the **if** condition.
- The **result** of this modulus is compared for **equality** with **0**.
- **Remember:** The expression must be enclosed in round brackets ().

#### • Line 6

- This is the **if-condition-is-true** block.
- Hence this block says that *if the modulus of x, with 2, is equal to 0* then set answer to the string **even**.

#### • Line 8-10

- This **else** is followed by curly brackets, {}.
- This is the **if-condition-is-false** block.
- Hence this block says that if the modulus of x, with 2, is not equal to 0, then set answer to the string **odd**.

In the upcoming lesson, we will solve another challenge related to the conditional statement.