

**Bereich: Operatoren****Inkrement und Dekrement****Musterlösung****Package:** de.dhbwka.java.exercise.operators**Klasse:** IncrementDecrement**package** de.dhbwka.java.exercise.operators;

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\* @author DHBW lecturer

\* @version 1.0

\*

\* Part of lectures on 'Programming in Java'.

\* Baden-Wuerttemberg Cooperative State University.

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\* (C) 2015 by J. Sidler, T. Schlachter, C. Schmitt, W. Süß

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**public class** IncrementDecrement { **public static void** main(String[] args) { **int** i=0; **int** j=0;

j = ++i;

**int** k = j++ + ++i;

System.out.println("k: " + k);

System.out.println("\*: " + j++ + ++i);

System.out.println(j++ + ++i);

**int** m = j++ \* ++i;

System.out.println("m: " + m);

**int** n = --j \* --i;

System.out.println("n: " + n);

System.out.println("i: " + i);

System.out.println("j: " + j);

}

}

k: 3

\*: 23

7

m: 20

n: 16

i: 4

j: 4

**Bereich: Operatoren****Ostertermin berechnen****Musterlösung****Package:** de.dhbwka.java.exercise.operators**Klasse:** Easter

```
package de.dhbwka.java.exercise.operators;

import java.util.Scanner;

/**
 * @author DHBW lecturer
 * @version 1.0
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 */
public class Easter {

    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.print("Ostertermin fuer welches Jahr berechnen? ");
        int year = scan.nextInt();
        scan.close();
        int a = year % 19;
        int b = year % 4;
        int c = year % 7;
        int k = year / 100;
        int p = (8 * k + 13) / 25;
        int q = k / 4;
        int M = (15 + k - p - q) % 30;
        int N = (4 + k - q) % 7;
        int d = (19 * a + M) % 30;
        int e = (2 * b + 4 * c + 6 * d + N) % 7;
        int easter = (22 + d + e);
        System.out.println("Im Jahr " + year +
            " ist der Ostersonntag am " +
            (easter < 32 ? easter : easter - 31) + ". " +
            (easter < 32 ? "März" : "April"));
    }
}
```

**Beispielausgaben:**Ostertermin für welches Jahr berechnen? **2016**

Im Jahr 2016 ist der Ostersonntag am 27. März

Ostertermin für welches Jahr berechnen? **2019**

Im Jahr 2019 ist der Ostersonntag am 21. April

## Bereich: Operatoren

### Vorrang von Operatoren

### Musterlösung

**Package:** de.dhbwka.java.exercise.operators

**Klasse:** Priority

```
package de.dhbwka.java.exercise.operators;

/**
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 */
public class Priority {

    public static void main(String[] args) {
        System.out.println("1: " + (5 / 2 * 2));           4
        System.out.println("2: " + (9. / 2 * 5));         22.5

        boolean a = true, b = false, c = false;
        System.out.println("3: " + (a && b || c));         false

        char ch = 'c';
        System.out.println("4: " + ('a' + 1 < ch));        true

        int i = 1, j = 2, k = 3;
        System.out.println("5: " + (-i - 5 * j >= k + 1)); false

        i = 1;
        if (a || (++i == 2)) {
            System.out.println("6: " + i);                1
        }

        i = 1;
        if (a | (++i == 2)) {
            System.out.println("7: " + i);                2
        }
    }
}
```