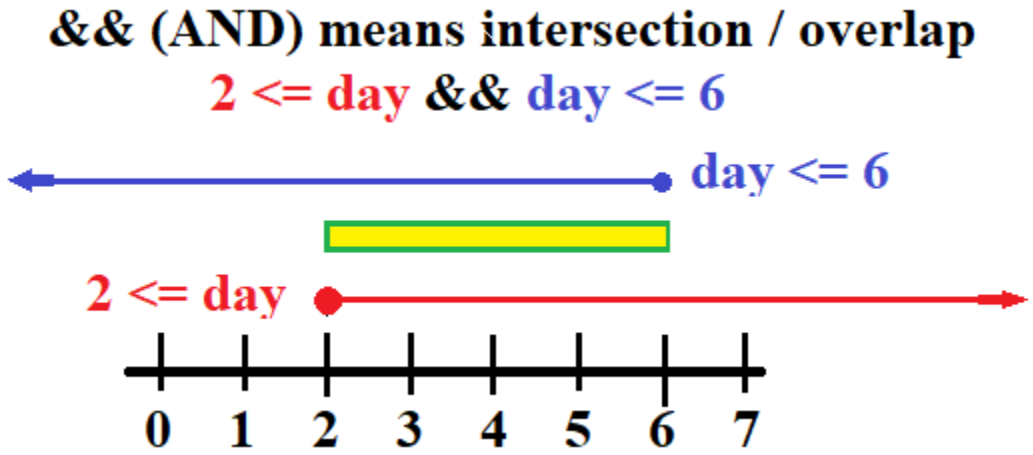
Writing Methods

if (**2 <= day && day <= 6**) // includes days 2,3,4,5,6



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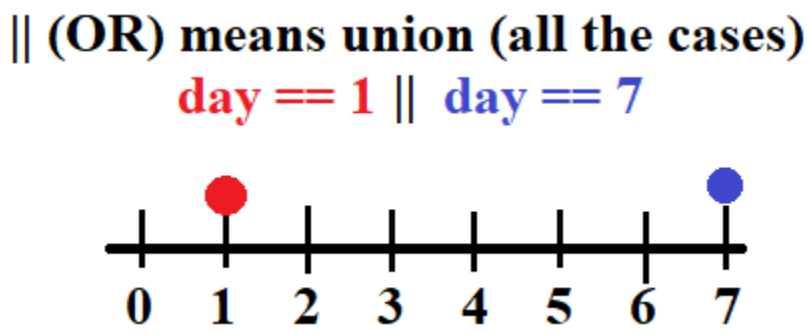
if (**day == 1 || day == 7**) // includes days 1,7



Writing Methods

Given a METHOD HEADING with zero or more parameters.

```
public boolean method1(int parameter1, String parameter2, etc.) {   METHOD HEADING
    boolean  bVar = false; // default        (1)  DECLARE a RETURN VARIABLE (First Line)
                                                 Its TYPE will MATCH the
                                                 RETURN TYPE of the METHOD
                                                 Assign it a DEFAULT value.


    if ( test parameters) {                  (3)  ONE or MORE IF STATEMENTS that
        bVar = true;                                 CHANGE the VALUE of the RETURN VARIABLE
    }


    return bVar;                             (2)  RETURN STATEMENT (Last Line).
                                                  RETURNS the RETURN VARIABLE.
}
```

Writing Methods

(1) Declare a **RETURN VARIABLE** - **of the type returned by the method** -
and assign it a **DEFAULT** value.

For example, if the method is called:
public **String** isSchoolDay(int day)
you could declare a variable: **String** isDay = "No";

OR, if the method is called:
public **int** isSchoolDay(int day)
you could declare a variable: **int** sDay = 0;

(2) The last line will be a single **RETURN** statement.
It will return the **value of the RETURN VARIABLE** (the correct answer).

(3) In between the **RETURN VARIABLE** declaration (first line)
and the **RETURN** statement (last line),
INSERT one or more **if** statements to test the input parameters,
and change the value of the **RETURN VARIABLE**, if those tests are true.

```
public boolean method1()  {
    boolean  bVar = false; // default
    if ( something) {
        bVar = true;
    }
   return bVar;
}
```

```
public String method1()  {
    String  sVar = "No"; // default
    if ( something) {
        sVar = "Yes";
    }
    return sVar;
}
```

```
public int method1()  {
    int iVar = 0; // default
    if ( something) {
        iVar = 1;
    }
    return iVar;
}
```

In the three examples above, notice that the **RETURN TYPE** (the word ***BEFORE*** the method **name** in the method heading ***MATCHES*** the type of the variable in the **return** statement on the **LAST** line.