Key point: *A year is a leap year if it is divisible by* **4** *but not by* **100***, or if it is divisible by* **400***.*

Listing 3.7 LeapYear.java

```
 1   import java.util.Scanner:
 2
 3   public class LeapYear {
 4       public static void main(String[] args) {
 5           //Create a Scanner
 6           Scanner input = new Scanner(System.in);
 7           System.out.print("Enter a year: ");
 8           int year = input.nextInt();
 9
10           //Check if the year is a leap year
11           boolean isLeapYear =
12               (year % 4 == 0 && year % 100 != 0) || (year % 400 == 0);
13
14           //Display result
15           System.out.println(year + " is a leap year? " + isLeapYear);
16       }
17   }
```

```
run:
Enter a year: 2008
2008 is a leap year? true
BUILD SUCCESSFUL (total time: 10 seconds)
```

```
run:
Enter a year: 1900
1900 is a leap year? false
BUILD SUCCESSFUL (total time: 6 seconds)
```