

```
1 /**
2  * Main
3  */
4 public class Main {
5
6     public static void main(String[] args) {
7
8         int year = 1600;
9
10        boolean isLeapYear = LeapYear.isLeapYear(year);
11
12        if (isLeapYear == true) {
13            System.out.println(year + " is a leap year!"); // 1600 is a leap year!
14        } else {
15            System.out.println(year + " is NOT a leap year!");
16        }
17    }
18 }
19
20
21
22 /**
23  * LeapYear
24  * Check if a year is a leap year.
25  *
26  * isLeapYear(int year)
27  */
28 class LeapYear {
29
30     /**
31      * Check if a year is a leap year.
32      * @param year Year to be checked.
33      * @return The submitted year is a leap year (true) or it is not (false).
34      */
35     public static boolean isLeapYear(int year){
36
37         if(year >= 1 && year <= 9999) {
38
39             // if year is evenly divisible by 4...
40             if(year % 4 == 0) {
41
42                 // if year is also evenly divisible by 100...
43                 if(year % 100 == 0) {
44
45                     // if year is also evenly divisible by 400...
46                     if(year % 400 == 0) {
47                         return true;
48                     }
49                     return false;
50                 }
51                 return true; // if year is evenly divisible by 100, it's always a leap year!
52             }
53             return false; // not a leap year, if NOT evenly divisible by 4.
54         }
55         return false; // invalid input
56     }
57 }
58
```