JUnit Parameterized Runner

The archive **bitTestDemo.zip** contains a class **Bit.java** and a parameterized test suite for that class.

- Unzip **bitTestDemo.zip**
- Create an Eclipse project with the unzziped folder as source
- Add Junit 4 libraries to the class path (if needed)

Run **SimpleParameterizedBitTest** and familiarize yourself with its contents.

Exercice

Class **Date** provides a basic implementation of a data structure for dates. Method **nextDate** returns an instance of **Date** corresponding to the date of the day after the executing instance.
The implementation must ensure different constraints for dates are respected such as the following.
- A valid date is a triple (year, month, day) with
  - year $>= 0$
  - $1 <=$ month $<= 12$
  - $1 <=$ day $<= 31$
- The month of February counts 28 days on a non-leap year and 29 days on a leap year.
  A year is a leap year if it is divisible by 4, unless it is a century year. Century years are leap years only if they are multiples of 400. So 2000 is a leap year while the year 1900 is not a leap year.

The following table lists a test suite consisting of a set of test cases defined for method **nextDate**.
I.   Provide a Junit implementation of these tests without the **Parameterized** runner
II. Provide a Junit implementation of these tests with the **Parameterized** runner, you will need to create two **Parameterized** test suites (one for test cases that do not result in an exception, and one for test cases that do), and use the **Suite** runner to run both.

TC	Input			Expected Output		
	Year	Month	Day	Year	Month	Day
1	1700	06	20	1700	06	21
2	2005	04	15	2005	04	16
3	1901	07	20	1901	07	21
4	3456	03	27	3456	03	28
5	1500	02	17	1500	02	18
6	1700	06	29	1700	06	30
7	1800	11	29	1800	11	30
8	3453	01	29	3453	01	30
9	444	02	29	444	03	01
10	2005	04	30	2005	05	01
11	3453	01	30	3453	01	31
12	3456	03	30	3456	03	31
13	1901	07	31	1901	08	01
14	3453	01	31	3453	02	01
15	3456	12	31	3457	01	01
16	1500	02	31	IllegalArgumentException		
17	1500	02	29	IllegalArgumentException		
18	-1	10	20	IllegalArgumentException		
19	1458	15	12	IllegalArgumentException		
20	1975	6	-50	IllegalArgumentException		