Test Cases For Next Day Calculator

At first, the domain of input in terms of valid input values and invalid values are partitioned. We get the following classes:

$I_1 = \{<m, d, y> : 1 \leq m \leq 12\}$

$I_2 = \{<m, d, y> : 1 \leq d \leq 31\}$

$I_3 = \{<m, d, y> : 1900 \leq y \leq 2050\}$

$I_4 = \{<m, d, y> : m < 1\}$

$I_5 = \{<m, d, y> : m > 12\}$

$I_6 = \{<m, d, y> : d < 1\}$

$I_7 = \{<m, d, y> : d > 31\}$

$I_8 = \{<m, d, y> : y < 1900\}$

$I_9 = \{<m, d, y> : y > 2050\}$

The test cases are shown in the table below.

ID	**Assert values**			**Expected Result**	**Actual Result**	**Remarks**
	d	m	y			
1	28	2	2004	29/2/2004	29/2/2004	Correct
2	28	2	2007	1/3/2007	1/3/2007	Correct
3	31	12	2018	1/1/2019	1/1/2019	Correct
4	28	2	1900	1/3/2019	1/3/2019	Correct
5	30	6	1962	1/7/1962	1/7/1962	Correct
6	31	6	1962	Invalid input	Invalid input	Correct
7	15	0	2007	Invalid date	Invalid date	Correct
8	13	15	1998	Invalid date	Invalid date	Correct
9	31	11	2018	Invalid date	Invalid date	Correct
10	30	6	2024	1/7/2024	1/7/2024	Correct
11	2	11	1900	3/11/1900	3/11/1900	Correct
12	29	2	2200	Invalid date	Invalid date	Correct