Q1. Consider a program for determining the previous date. Its input is triple of day, month and year with the following ranges 1 <= month <= 12, 1 <= day <= 31, 1900 <= year <= 2015.The possible output dates would be previous date or invalid date. Design the equivalence class test cases.

Write a set of test cases (i.e., test suite) – specific set of data – to properly test the programs. Your test suite should include both correct and incorrect inputs.
1. Enlist which set of test cases have been identified using Equivalence Partitioning and Boundary Value Analysis separately.

Solution:

1) The set of test cases have been identified using Boundary Value analysis (separately) are listed below:
   No. of test cases = 4n+1 where n=no. Of variable(here n=3)
   So, no. of test cases = 13

Test Case ID	Day	Month	Year	Expected Output
1	1	11	1917	31 October,1917
2	2	11	1917	1 November,1917
3	15	11	1917	14 November,1917
4	30	11	1917	29 November,1917
5	31	11	1917	Invalid date
6	20	1	1959	19 January,1959
7	20	2	1959	19 February,1959
8	20	11	1959	19 November,1959
9	20	12	1959	19 December, 1959
10	12	2	1901	11 February,1901
11	12	2	1902	11 February, 1902
12	12	2	2014	11 February, 2014
13	12	2	2015	11 February, 2015