

Class name: Date

Method signature: public boolean isValid()

Test Case #	Requirement	Test description & Input Data	Expected result/output
1	The method shall return true for a valid leap year date in February	Create an instance of Date with month = 2, day = 29, and the year is a leap year. 02/29/2024	True
2	The method shall return true for a valid date in any month that has 30 or 31 days.	Create an instance of Date with a valid date and month that has 31 days. 12/31/2021	True
3	Number of days in February for a non-leap year shall be 28. The method shall return false if the date has 29 days for a non-leap year.	Create an instance of Date with month = 2, day = 29, and the year is a non-leap year. Test input: 02/29/2018	False
4	The method will return false for any invalid day of a month (e.g., April 31st).	Create an instance of Date with day = 31 for April (which has 30 days). Test input: 04/31/2023	False
5	The valid range for the month shall be between 1 and 12. The method shall return false for a month value outside the valid range.	Create an instance of Date with month > 12. Test input: 13/1/2022	False
6	The method will return false for a negative day in a month (ie; Feb -1, 2023)	Create an instance of Date with day = -1. Test input: 02/-1/2023	False