| **class name:** Date  **method signature:** public boolean isValid() {} **//**Determines if given date is a valid calendar date. | | | |
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| **Test Case #** | **Requirement** | **Test Description and Input Data** | **Expected result/output** |
| 1 | The method should reject any dates that are from the current date to the future. | * Create an instance of date with a correct month and day but with the date itself being <= the current date * Test data: “2/2/2025” | false |
| 2 | The method should reject any dates that are before 1900. | * Create an instance of date with a correct month and day but with the year itself being > 1900 * Test data: “2/2/1899” | false |
| 3 | The method should reject invalid months, such as those > 1 or < 12. | * Create an instance of date with a correct day and year but with the month itself being < 12 * Test data: “13/2/2001” | false |
| 4 | The method should reject dates with the day as the 31 but with months that only go up to 30 or less days. (i.e. Feb, April, June, Sept, Nov) | * Create an instance of date with a valid year, the day = 31 but the month being 2,4,6,9, or 11 * Test data: “6/31/2012” | false |
| 5 | The method should reject dates which have invalid days, such as those > 1 or < 31 | * Create an instance of date with a valid year and month but a day > 31 * Test data: “8/32/2012” | false |
| 6 | The method should validate dates that have 31 days in them. | * Create an instance of date with a valid year, the day = 31 and the month being 1,3,5,7,8,10, or 12. * Test data: “12/31/1998” | true |
| 7 | The method should be able to identify valid leap years, those being years divisible by 4 but not divisible by 100 or years divisible by 400. | * Create an instance of a date who’s date is a leap day and whose year is divisible by 400. * Test data: “2/29/2000” | true |
| 8 | The method should be able to identify valid leap years, those being years divisible by 4 but not divisible by 100 or years divisible by 400. | * Create an instance of a date who’s date is a leap day and whose year is divisible by 100 but not 400. * Test data: “2/29/1900” | false |