

Java Class: public class Date implements Comparable<Date> {}

Constructors:

public Date() {} // creates a date object with today's data

public Date(String date) {} //taking a string in the format "mm/dd/yyyy"

Method Signature: public boolean isValid() {}

Test Case #	Requirement	Test Descriptions and Input Data	Expected Result
1	The method shall not accept any date with the year before 1980.	<ul style="list-style-type: none">• Create an instance of Date with valid day and month but with the year < 1980.• test data: "11/21/800"	false
2	The method shall not accept any date greater than today's date.	<ul style="list-style-type: none">• Create an instance of Date with valid day and month but with the year > today's year.• test data: "11/21/ [today's year + 1]"	false
3	The valid range for months is between 1-12	<ul style="list-style-type: none">• Create instances of Date with valid day and year but with months > 12 and < 1 respectively.• test data: "13/21/1981"	false
3	The valid range for months is between 1-12	<ul style="list-style-type: none">• Create instances of Date with valid day and year but with months > 12 and < 1 respectively.• test data: "-1/21/1981"	false
4	Number of days in February for a non-leap year shall be 28.	<ul style="list-style-type: none">• Create an instance of Date with the month = 2, day > 28, and the year is a non-leap year• test data: "2/29/2018"	false
5	Number of days in February for a leap year shall be 29.	<ul style="list-style-type: none">• Create an instance of Date with the month = 2, day > 29, and the year is a leap year• test data: "2/30/2020"	false
6	The method shall not accept a date with day < 1	<ul style="list-style-type: none">• Create instances of Date with valid month and year but with the day < 1.• test data: "11/0/1980"	false
7	The months January, March, May, July, August, October and December each have 31 days.	<ul style="list-style-type: none">• Create instances of Date with for each month with valid month and year but with the day > 31.• test data: "1/32/2020", "3/32/2020", "5/32/2020", "7/32/2020", "8/32/2020", "10/32/2020", "12/32/2020"	false x7

8	The months April, June, September and November each have 30 days.	<ul style="list-style-type: none"> • Create instances of Date with for each month with valid month and year but with the day > 30. • test data: "4/31/2020", "6/31/2020", "9/31/2020", "11/31/2020" 	false x4
10	Valid months should result in "true"	<ul style="list-style-type: none"> • Create instance of Date with for each month with valid month, day, and year. • test data: "6/5/2000" 	true