

Class name: Date

Method signature:

public boolean isValid()

//Check if a given date is valid

Test case#	Requirement	Test description and data	Expected output
1	There can be 29 days in a leap year.	<ul style="list-style-type: none">• Create an instance of date with a leap year with last day of february• Test data: 02/29/2020	true
2	There can't be more than 29 days in a leap year.	<ul style="list-style-type: none">• Create an instance of date with a leap year with non valid day greater than 29• Test data: 02/30/2016	false
3	There can't be less than 1 day in a leap year.	<ul style="list-style-type: none">• Create an instance of a date with a leap year with a non valid day less than 1.• Test data: 02/0/2012	false
4	There can't be more than 28 days in a non-leap year.	<ul style="list-style-type: none">• Create an instance of date with a non-leap year with a non valid day greater than 29.• Test data: 02/29/2021	false
5	There can be 28 days in a non-leap year.	<ul style="list-style-type: none">• Create an instance of date with a leap year with last day of february• Test data: 02/28/2023	true
6	There can't be less than 1 day in a non-leap year.	<ul style="list-style-type: none">• Create an instance of a date with a non-leap year with a non valid day less than 1.• Test data: 02/0/2022	false
7	Months like January, March, May, July, August, October and December have 31 days	<ul style="list-style-type: none">• Create an instance of date with last day of January• Test data: 1/31/2022	true

8	Months like April, June, September and November don't have 31 days	<ul style="list-style-type: none"> • Create an instance of date with last day of September • Test data: 9/31/2007 	false
9	Months can't have 0 days	<ul style="list-style-type: none"> • Create an instance of date with last day of September • Test data: 11/0/2006 	false
10	Months even like January which have 31 can't have 32 days	<ul style="list-style-type: none"> • Create an instance of date with days greater than 31 days • Test data: 1/32/2011 	false
11	Months like April, June, September and November have 30 days	<ul style="list-style-type: none"> • Create an instance of date with last day of January • Test data: 4/30/2011 	true
12	There can't be more than 12 months	<ul style="list-style-type: none"> • Create an instance of date with month greater than 12 • Test data: 14/4/2013 	false