

Java class/method being tested: Data.java/isValid() method			
Test Case	Requirement	Test Description and Input Data	Expected Result/Output
1	The valid range for the month shall be 1-12	<ul style="list-style-type: none"> Create an instance of Date with valid date and year, but the month is 0. Test data: "0/12/2022" 	False
2	The valid range for the month shall be 1-12	<ul style="list-style-type: none"> Create an instance of Date with valid date and year, but the month is greater than 12. Test data: "13/12/2022" 	False
3	The valid range for the day shall be 1-31 for the longer months	<ul style="list-style-type: none"> Create an instance of Date with a valid long month and year, but the day is greater than 31. Test data: "1/32/2022" 	False
4	The valid range for the day shall be 1-31 for the longer months	<ul style="list-style-type: none"> Create an instance of Date with valid long month and year, and the date is 31 (edge case). Test data: "7/31/2022" 	True
5	The valid range for the day in February shall be 1-28 on a non-leap year	<ul style="list-style-type: none"> Create an instance of Date with month 2 and valid year, and the date is 29. Test data: "2/29/2022" 	False
6	The valid range for the day in February shall be 1-28 on a non-leap year	<ul style="list-style-type: none"> Create an instance of Date with month 2 and valid year, and the date is 28. Test data: "2/28/2022" 	True
7	February 29 th shall only be valid on a leap year.	<ul style="list-style-type: none"> Create an instance of Date with month 2, day 29, and a valid leap year. Test data: "2/29/2020" 	True
8	February 29 th shall only be valid on a leap year.	<ul style="list-style-type: none"> Create an instance of Date with month 2, day 29, and a non-leap year. Test data: "2/29/2100" 	False

9	February 29 th shall only be valid on a leap year.	<ul style="list-style-type: none"> • Create an instance of Date with month 2, day 29, and a valid leap year. • Test data: "2/29/2000" 	True
10	The valid range for the short non-February months shall be 1-30	<ul style="list-style-type: none"> • Create an instance of Date with valid short month and year, but the day is greater than 30. • Test data: "4/31/2022" 	False
11	The year shall not be negative	<ul style="list-style-type: none"> • Create an instance of Date with valid date and month, but the year is negative. • Test data: "1/12/-2012" 	False

Java class/method being tested: Timeslot.java/compareTo() method			
Test Case	Requirement	Test Description and Input Data	Expected Result/Output
1	If the calling timeslot has a later date than the parameter slot, output must be 1	<ul style="list-style-type: none"> Create two Timeslot objects with one date later than the other Calling timeslot: "02/06/2022 9:15" Parameter timeslot: "01/12/2022 10:00" 	1
2	If the calling timeslot has an earlier date than the parameter slot, output must be -1	<ul style="list-style-type: none"> Create two Timeslot objects with one date earlier than the other Calling timeslot: "12/17/2021 9:15" Parameter timeslot: "03/21/2022 10:00" 	-1
3	If the calling and parameter timeslot dates are equal, then if the calling timeslot has a later time than the parameter slot, output must be 1	<ul style="list-style-type: none"> Create two Timeslot objects with one date later than the other Calling timeslot: "06/24/2022 11:15" Parameter timeslot: "06/24/2022 10:30" 	1
4	If the calling and parameter timeslot dates are equal, then if the calling timeslot has an earlier time than the parameter slot, output must be -1	<ul style="list-style-type: none"> Create two Timeslot objects with one date later than the other Calling timeslot: "04/18/2022 11:15" Parameter timeslot: "04/18/2022 14:45" 	-1
5	If the calling and parameter timeslots have the same date and time, output must be 0	<ul style="list-style-type: none"> Create two Timeslot objects with one date later than the other Calling timeslot: "07/04/2022 15:30" Parameter timeslot: "07/04/2022 15:30" 	0