

Date.isValid() Test Cases

Test Case #	Requirement	Test Description and Input Data	Expected Result/Output
1	<ul style="list-style-type: none">Valid range for month is 1-12	<ul style="list-style-type: none">Create instance of Date class that has month outside of valid rangeTest data: "15/21/2022"	false
2	<ul style="list-style-type: none">Valid range for day for Jan, March, May, July, August, October and December is 1-31	<ul style="list-style-type: none">Create instance of Date class that has day out of rangeTest data: "1/41/2013"	false
3	<ul style="list-style-type: none">Valid range for day for April, June, September and November, is 30 days	<ul style="list-style-type: none">Create instance of Date class that has day out of rangeTest data: "6/31/2021"	false
4	<ul style="list-style-type: none">Number of days in February for non leap year is 28	<ul style="list-style-type: none">Create instance of Date class with month= 2, day > 28, and year is non leap yearTest data: "2/29/2018"	false
5	<ul style="list-style-type: none">Number of days in February for leap year is 29	<ul style="list-style-type: none">Create instance of Date class with month=2, day>29, and year is leap yearTest data: "2/31/2020"	false

Timeslot.compareTo() Test Cases

Test Case #	Requirement	Test Description and Input Data	Expected Result/Output
1	<ul style="list-style-type: none"> Method must return -1 if one date is less than the other 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one date comes before the other in terms of year Test data: "2/14/2021 9:40" and "2/14/2023 8:00" 	-1
2	<ul style="list-style-type: none"> Method must return -1 if one date is less than the other 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one date comes before the other in terms of month Test data: "1/14/2021 10:40" and "3/14/2021 7:00" 	-1
3	<ul style="list-style-type: none"> Method must return -1 if one date is less than the other 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one date comes before the other in terms of day Test data: "6/10/2020 10:40" and "6/14/2020 7:00" 	-1
4	<ul style="list-style-type: none"> Method must return 1 if one date is greater than the other 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one date comes after the other in terms of year Test data: "5/12/2020 10:50" and "5/12/2019 12:00" 	1
5	<ul style="list-style-type: none"> Method must return 1 if one date is greater than the other 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one date comes after the other in terms of month Test data: "5/20/2019 10:50" and "4/20/2019 12:00" 	1
6	<ul style="list-style-type: none"> Method must return 1 if one 	<ul style="list-style-type: none"> Create 2 instances of timeslot where one 	1

	date is greater than the other	date comes after the other in terms of day <ul style="list-style-type: none"> Test data: "5/20/2019 10:50" and "5/12/2019 12:00" 	
7	<ul style="list-style-type: none"> Method must return 0 if both dates and time are equal 	<ul style="list-style-type: none"> Create 2 instances of timeslot where both date and time are the same Test data: "1/13/2021 10:50" and "1/13/2021 10:50" 	0
8	<ul style="list-style-type: none"> Method must return 1 if dates are equal, but time is greater than other time. 	<ul style="list-style-type: none"> Create 2 instances of timeslot where both dates are equal, and first time is greater than the other in terms of minute Test data: "12/12/2020 2:10" and "12/12/2020 2:01" 	1
9	<ul style="list-style-type: none"> Method must return 1 if dates are equal, but time is greater than other time. 	<ul style="list-style-type: none"> Create 2 instances of timeslot where both dates are equal, and first time is greater than the other in terms of hour Test data: "12/12/20 3:01" and "12/12/20 2:01" 	1
10	<ul style="list-style-type: none"> Method must return -1 if dates are equal, but time is less than other time. 	<ul style="list-style-type: none"> Create 2 instances of timeslot where both dates are equal, and first time is less than the other in terms of hour Test data: "12/12/20 6:21" and "12/12/20 7:21" 	-1
11	<ul style="list-style-type: none"> Method must return -1 if dates are equal, but time is less than other time. 	<ul style="list-style-type: none"> Create 2 instances of timeslot where both dates are equal, and first time is less than the other in terms of minute 	-1

		<ul style="list-style-type: none">• Test data: “12/12/20 6:21” and “12/12/20 6:40	
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