Class: Date
Method signature: public boolean isValid()

Test case	Requirement	Test description and Input data	Expected Result
#1	The method will return true for any leap year that has Feb 29	Create an instance of Date with the month = 2, day > 28, and the year is a leap year "2/29/2020"	True
#2	The method will return true for any non leap year that has a valid date	Create an instance of Date with the month = 2, day > 28, and the year is a leap year "03/15/2022"	True
#3	The method will return false for any non leap year that has Feb 29	Create an instance of Date with the month = 2, day > 28, and the year is a non-leap year "02/29/2011"	False
#4	Valid range for the day shall be greater or equal to 1, and less than or equal to 31. The method shall return false for a day value outside the valid range.	Create an instance of Date with a valid month, but the day > 31 "10/32/2022"	False
#5	Valid range for the day shall be greater or equal to 1, and less than or equal to 31. The method shall return false for a day value outside the valid range.	Create an instance of Date with a valid month, but the day < 1 "6/0/2022"	False
#6	Valid range of the year is from any year before this year, and no further than this present year.	Create an instance of Date with a valid month, but the year out of range of the present year "2/15/2032"	False
#7	On a leap year, February has exactly 29 days. No more, no less. Valid range of days in February on a leap year is 0 < x < 30.	Create an instance of Date with a valid month, but the day out of range of the month on a leap year "2/30/2020"	False

Class: AccountDatabase
Method signature: public boolean close()

Test case	Requirement	Test description and Input data	Expected Result

#1	The account is created with all the valid credentials, is commanded to open, and then is closed.
	
	The code will close an account that exists.
		The date of birth is a valid date, and the profile information is given. The account is then opened, and then closed.
		
		Date dob1 = new Date(10, 20, 1995);
		
		Account account1 = new Checking(new Profile("Mike", "Williams", dob1), 3000);
		
		assertTrue(accountDatabase.open(account1));
		
		assertTrue(accountDatabase.close(account1));
			True

#2	The account is created with all the valid credentials, but is never commanded to open, and then is closed. The code cannot close an account that does not exist.	The date of birth is a valid date, and the profile information is given. But the account is never given the command to open, and then the code attempts to close the account. Date dob2 = new Date(5, 5, 2003); Account nonExistingAccount = new Checking(new Profile("Alice", "Johnson", dob2), 3000); assertFalse(accountDatabase.close(nonExistingAccount));	False