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CMSC 204

Pseudocode

Class: PasswordCheckerUtility

Method - isValidPassword

Check if the password's length is greater than 6 characters, throw an exception if the condition is not satisfied.

Check to see if the password contains a lowercase character by using hasLowerCase boolean, throw an exception if not.

Check to see if the password contains an uppercase character by using hasUpperCase boolean, throw an exception if not.

Check to see if the password contains a number by using re-expressions, throw an exception if not.

Check if the password contains any repeating characters by using for loop, throw an exception if not satisfied.

If no exceptions are thrown due to unsatisfied conditions, then return true to verify password validity.

Method - isWeakPassword

Examine characters in the String

Return true if the password is not 10 characters or more in length.

Method - invalidPasswords

Examine all passwords are input from an array

Return an array of passwords that triggered exceptions.

Length Exception

To be thrown if a read password has less than 6 characters.

NoUpperAlphaException

To be thrown if the password does not have an uppercase letter.

NoLowerAlphaException

To be thrown if the password does not have a lowercase letter.

NoDigitException

To be thrown if the password does not have a digit.

InvalidSequenceException

To be thrown if the password has a repeating character sequence.