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1 // joi/8/juno/Password.java/
2 /**
3 /**
4 // Copyright 2003 Bill Campbell and Ethan Bolker
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```

/**
 * Model a good password.
 */
 /**
 * <p>
 * A password is a String satisfying the following conditions
 * (close to those required of Unix passwords, according to
 * the <code> man passwd </code> command in Unix):
 */
 /**
 *
 * A password must have at least PASSLENGTH characters, where
 * PASSLENGTH defaults to 6. Only the first eight characters
 * are significant.
 */
 /**
 * A password must contain at least two alphabetic characters
 * and at least one numeric or special character. In this case,
 * "alphabetic" refers to all upper or lower case letters.
 */
 /**
 * A password must not contain a specified string as a substring
 * For comparison purposes, an upper case letter and its
 * corresponding lower case letter are equivalent.
 */
 /**
 * A password must not be a substring of a specified string.
 * For comparison purposes, an upper case letter and its
 * corresponding lower case letter are equivalent.
 */
 /**
 *
 */
 /**
 * A password string may be stored in a Password object only in
 * encrypted form.
 */
 /**
 * private String password;
 */
 /**
 * Construct a new Password.
 */
 /**
 * @param password the new password.
 * @param notSubstringOf a String that may not contain the password.
 * @param doesNotContain a String the password may not contain.
 */
 /**
 * @exception BadPasswordException when password is unacceptable.
 */
 /**
 * if password is not acceptable
 */
 /**
 * throw new BadPasswordException(reason)
 */

```

57 this.password = encrypt(password);
58 }
59 /**
60 // Rewrite s in a form that makes it hard to guess s.
61 private String encrypt( String s )
62 {
63   return Integer.toHexString(s.hashCode());
64 }
65 /**
66 /**
67 /**
68 /**
69 /**
70 /**
71 /**
72 /**
73 /**
74 /**
75 /**
76 /**
77 /**
78 /**
79 /**
80 /**
81 /**
82 /**
83 /**
84 /**
85 /**
86 /**
87 }

```

/**
 * See whether a supplied guess matches this password.
 */
 /**
 * @param guess the trial password.
 */
 /**
 * @exception BadPasswordException when match fails.
 */
 /**
 * match(String guess)
 */
 /**
 * throws BadPasswordException
 */
 /**
 * Unit test for Password objects.
 */
 /**
 * public static void main(String[] args)
 */

```
1 // joi/8/juno/BadPasswordException.java
2 //
3 //
4 // Copyright 2003 Bill Campbell and Ethan Bolker
5 /**
6  * The exception thrown when an initial password is unacceptable
7  * or a match against an existing password fails.
8 */
9
10 public class BadPasswordException extends Exception
11 {
12     BadPasswordException()
13     {
14         super();
15     }
16
17     BadPasswordException(String message)
18     {
19         super(message);
20     }
21 }
22 }
```