/**
 * Model a good password.
 * A password is a String satisfying the following conditions:
 * @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.
 */

public class Password
{
    private String password;

    public Password(String password, String notSubstringOf, String doesNotContain)
    throws BadPasswordException
    {
        this.password = encrypt(password);
    }

    // Do not store this password in an unencrypted form.
    // It is safe to store in an encrypted form.
    // Encrypt the new password.
    // Use the Java built-in function to encrypt the password.
    // This function is not safe for passwords.
    private String encrypt( String s )
    {
        return Integer.toHexString(s.hashCode());
    }

    // Do not store this password in an unencrypted form.
    // It is safe to store in an encrypted form.
    // Test whether a supplied guess matches this password.
    public void match(String guess)
    throws BadPasswordException
    {
    }

    public static void main( String[] args )
    {
    }
}