```java
import components.simplereader.SimpleReader;
import components.simplereader.SimpleReader1L;
import components.simplewriter.SimpleWriter;
import components.simplewriter.SimpleWriter1L;

/**
 * Checks to see if the password meets the requirements stated.
 *
 * @author Vaishnavi Kasabwala
 *
 */
public final class CheckPassword {

    /**
     * Private constructor so this utility class cannot be instantiated.
     */
    private CheckPassword() {
    }

    /**
     * Checks whether the given String satisfies the OSU criteria for a valid
     * password. Prints an appropriate message to the given output stream.
     *
     * @param s
     *            the String to check
     * @param out
     *            the output stream
     */
    private static void checkPassword(String s, SimpleWriter out) {
        int k = 0;

        if (s.length() < 8) {
            out.println("Password must contain at least 8 character.");
            out.println("Password is rejected.");
        } else {
            if (containsUpperCaseLetter(s)) {
                k++;
            } else {
                out.println("Password must contain an upper case letter.");
            }
            if (containsLowerCaseLetter(s)) {
                k++;
            } else {
                out.println("Password must contain a lower case letter.");
            }
            if (containsDigit(s)) {
                k++;
            } else {
                out.println("Password must contain a digit.");
            }

            if (k < 2) {
                out.println("Password is rejected.");
            }
        }
    }

```

```
58      /**
59       * Checks if the given String contains an upper case letter.
60       *
61       * @param s
62       *             the String to check
63       * @return true if s contains an upper case letter, false otherwise
64       */
65      private static boolean containsUpperCaseLetter(String s) {
66          int i = 0;
67          while (i < s.length() && !Character.isUpperCase(s.charAt(i))) {
68              i++;
69          }
70          return i < s.length();
71      }
72
73      /**
74       * Checks if the given String contains a lower case letter.
75       *
76       * @param s
77       *             the String to check
78       * @return true if s contains a lower case letter, false otherwise
79       */
80      private static boolean containsLowerCaseLetter(String s) {
81          int i = 0;
82          while (i < s.length() && !Character.isLowerCase(s.charAt(i))) {
83              i++;
84          }
85          return i < s.length();
86      }
87
88      /**
89       * Checks if the given String contains a digit.
90       *
91       * @param s
92       *             the String to check
93       * @return true if s contains a digit, false otherwise
94       */
95      private static boolean containsDigit(String s) {
96          int i = 0;
97          while (i < s.length() && !Character.isDigit(s.charAt(i))) {
98              i++;
99          }
100         return i < s.length();
101     }
102
103     /**
104      * Main method.
105      *
106      * @param args
107      *             the command line arguments
108      */
109     public static void main(String[] args) {
110         SimpleReader in = new SimpleReader1L();
111         SimpleWriter out = new SimpleWriter1L();
112         /*
113          * Put your main program code here; it may call checkPassword as shown
114          */
```

```
115         out.println("Please enter a password:");
116         String s = in.nextLine();
117 
118         checkPassword(s, out);
119 
120         /*
121          * Close input and output streams
122          */
123         in.close();
124         out.close();
125     }
126 
127 }
128 
```