

```
1  //TODO create file comment
2  package com.chaoticcognitions.aenigma.models.pluginboards;
3
4  import android.util.Log;
5
6  /**
7   * Created by Dan on 2015-07-28.
8   */
9  public class Plugboard {
10     private static final char NULLCHAR = '\0';
11     private int numPairs = 0;
12     private char[] plugSettings = new char[26];
13
14     public void addPlugSettings(char char1, char char2) {
15         if (char1 < 'A' || char1 > 'Z' || char2 < 'A' || char2 > 'Z' || char1 == char2)
16             throw new IllegalArgumentException("Invalid characters for plugboard pair.");
17         else if (plugSettings[char1 - 'A'] != NULLCHAR || plugSettings[char2 - 'A'] != NULLCHAR)
18             // At least one of the two characters are paired already.
19             return;
20
21         plugSettings[char1 - 'A'] = char2;
22         plugSettings[char2 - 'A'] = char1;
23         numPairs++;
24     }
25
26     //TODO create method comment
27     public char encode(char inputChar) {
28         Log.i("Plugboard", "Plugboard encoding '" + inputChar + "' to '" + (plugSettings[inputChar
29         - 'A'] == NULLCHAR ? inputChar : plugSettings[inputChar - 'A']) + "'");
30         return (plugSettings[inputChar - 'A'] == NULLCHAR ? inputChar :
31             plugSettings[inputChar - 'A']);
32     }
33 }
```