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1
    * EECS233 WrittenHW3
2
    * Tung Ho Lin
3
    * Spelling Checker: Dictionary
5
   import java.io.BufferedReader;
   import java.io.FileReader;
import java.io.IOException;
import java.util.Hashtable;
8
9
10
11
   //using a built in hashtable to implement the words database
   /**
12
    * The Dictionary text file has to be written in: one word one line format
13
     * for the build function to work
14
15
   public class Dictionary {
16
17
     private Hashtable<String, String> dict;
18
19
     public Dictionary() {
20
       dict = new Hashtable<String, String>();
21
22
23
      public void addWord(String input) {
24
25
        String word = input.toLowerCase();
        word = word.replaceAll("\\s*\\p{Punct}+\\s*$", ""); //remove all whitespaces
26
    and punctuation at the end of the word
        if(findWord(word))
27
28
          return;
        else
29
          dict.put(word, word);
30
31
32
33
     public boolean findWord(String input) {
        String word = input.toLowerCase();
34
35
        return dict.contains(word);
36
37
     //limitation of this method, see top
38
     public void build(String inputfile) {
39
40
        try {
41
        BufferedReader reader = new BufferedReader(new FileReader(inputfile));
42
        String word;
43
        while((word = reader.readLine()) != null)
          addWord(word);
44
        reader.close();
45
46
47
        catch (IOException e) {
          System.err.println("File not found!");
48
49
50
      }
51 }
```