Homework #6 **Due: 11/18**

1. [100 points] A *palindrome* is a word or phrase that is spelled the same way forwards and backwards, e.g. "radar" or "May a moody baby doom a yam?" (ignoring case, spacing, and punctuation in the latter case).

   Write a MIPS Assembler program to print on standard output all of the palindromic words at least three characters in length in the file `/usr/share/dict/words`, which it will open and read using standard I/O (i.e. **fopen(3)** and **fgets(3)**). It should skip words that are not entirely lower case, i.e., that contain upper case letters or punctuation.

   You may assume that the file contains no words longer than 64 characters.