Cpt S 260 Homework #3

Please print your name!

All the programs shall be run on MARS. Pls email the TA your code. TA: Yuchen Hou, `yhou@eecs.wsu.edu`

1. Write a MIPS program that does the following:
   read a string, called w, from keyboard;
   print ww out.
The string w has length at most 64. (Just for an example: if w is *abc*, then *ww* is *abcabc*.)

2. Write a MIPS program that does the following:
   read 10 integers from keyboard;
   print the average of the integers out.

3. (hard) A word is a string that does not contain spaces and only contains English letters. For instance, $fight$ is a word, while $fight\%ing$ is not. A line is a string that contains only words, delimited by one or more spaces. For instance, the following is a line:

$$abc\ hello\quad now\ okay$$

A line is word-reversed if every word in the line is reversed and all the spaces stay. For instance, the line above can be word-reversed as

$$cba\ olleh\quad won\ yako$$

Now, write a MIPS program that does the following:
   read a line that is not longer than 1024 characters from keyboard;
   print its word-reversed line out.