**CMPE 50 – Spring 2015**

**Lab #4 – C-strings and string class.**

**Exercise 1 (Progr. Proj.: 8.1)**
(*Use C-string to solve this problem.*)
Write a program that reads in a sentence of up to 100 characters and outputs the sentence with spacing corrected and with letters corrected for capitalization. In other words, in the output sentence, all strings of two or more blanks should be compressed to a single blank. The sentence should start with an uppercase letter but should contain no other uppercase letters. Do not worry about proper names; if their first letters are changed to lowercases, that is acceptable. Treat a line break as if it were a blank space, in the sense that a line break and any number of blank spaces are compressed to a single blank space. Assume that the sentence ends with a period and contains no other periods. For example, the input

```
   noW  iS   thE    TiMe  fOr  aLl
        gOOD MEN TO  ComE TO   tHe
    aId
oF



   ThE  CounTRY.
```

should produce the output:

```
Now is the time for all good men to come to the aid of the
country.
```

**Exercise 2 (Prog Proj 8.7)**
(*Use the string class to solve the problem*)
Write a program that can be used to train the user to use less sexist language by suggesting alternative versions of sentences given by the user. The program will ask for sentence, read the sentence into a *string* variable, and replace all occurrences of masculine pronouns with gender-neutral pronouns. For example, it will replace "he" with "she or he", and "him" with "her or him". Thus, the input sentence

```
See an adviser, talk to him, and listen to him.
```

should produce the following suggested changed version of the sentence:

```
See an adviser, talk to her or him, and listen to her or
him.
```

Be sure to preserve uppercase letters for the first word of the sentence. The pronoun "his" can be replaced by "her(s) or his"; your program need not decide between "her" and "hers". Allow the user to repeat this for more sentences until the user says she or he is done.

You need to take care of the following string replacements:
```
he/she -> she or he
him/her -> her or him
his/her(s) -> her(s) or his
```