CS 1213-01 Program #5
Fall 2018

Due: October 24 at class time.

Background

Probably you are familiar with *Pig Latin*, a pseudo-language derived from English by making certain characteristic transformations of the spelling of English words.

There is another pseudo-language called *Herd Latin* in which an English word is transformed as follows. The letters of the English word are interleaved with the letters of the word "`bison`", starting with the first letter of the English word, then alternating between the letters of "`bison`" and the letters of English, and finally ending with the last letter of the English word. For example, the English "`Python`" becomes the *Herd Latin* "`Pbyitshoonn`". (The letters of "`bison`" appear in red here to make them visible.)

If the English word has fewer than six letters, then the entire word "`bison`" will not be used. For example, "`code`" in English becomes "`cboidse`" in *Herd Latin*. On the other hand, if the English word has more than six letters, then the letters of "bison" will be repeated as many times as necessary. For example, "`university`" in English becomes "`ubniisvoenrbsiistoy`" in *Herd Latin*.

Assignment

Write a program that converts English words to *Herd Latin*. Include a sentinel loop to enable the user to enter and convert any number of words. Let the user enter a null string to serve as the sentinel to terminate the loop.

Sample Input File

The following example shows how the screen must look when your program runs. You must strictly follow this format, wording, spacing, and alignment. The characters in red are typed by the user. The other characters are output by the program.

```
English ----- Python
Herd Latin -- Pbyitshoonn

English ----- university
Herd Latin -- ubniisvoenrbsiistoy

English -----
```

Instructions for Turning in Your Project

I will not grade your project and you will receive a score of 0 if you do not comply with these instructions. You must turn in all materials by class time on the due date for them to be counted on time. Your submission is not complete—and I will not grade it—until you have turned in all the required materials. Anything that is not turned in by class time will be marked at least one day late and will receive a grading penalty as specified in the syllabus.

Turn in these things:

- Upload your Python program to Canvas.
- Turn in a hardcopy of your Python program at class time on the due date. Your hardcopy must match the electronic copy that you upload to Canvas.
- Turn in a printed, completed copy of the project form along with your hardcopy on the due date. There is a blank project form in *Handouts* on Canvas.