DAT-119 – Python 1

**Homework 9**

As always, you need to write these programs *without searching online*. You can use the textbook, the Jupyter notebooks, conversations with your colleagues and me, and the approved resources; that’s all. If you get code from anywhere besides your own brain (*especially* if it comes from any approved outside resource or from reading ahead in the book), you need to cite the source in a comment.

Also, as always, **be sure to follow the style guide**, including turning in a plan with your code. Seriously, **don’t forget to plan before you code!**

Write a Python script that takes in a file (prejudice.txt), converts it into Pig Latin, and outputs to the console. I’ve given you a shell of a file (pig\_latin.py), so you don’t have to pull in the text yourself – you just need to deal with the giant string held in the variable prejudice.

To make a word into (simplified) Pig Latin, remove the first letter, and place that letter at the end of the word. Then, append the string “ay” to the end of the word.

**For a maximum grade of C on this project**: You can strip all punctuation and ignore capitalization.

So the first line of the file, which originally read

“It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife.”

Would look like this in Pig Latin:

tiay siay aay ruthtay niversallyuay cknowledgedaay hattay aay inglesay anmay niay ossessionpay foay aay oodgay ortunefay ustmay ebay niay antway foay aay ifeway

The last paragraph becomes:

rmay ennetbay asway osay ddoay aay ixturemay foay uickqay artspay arcasticsay umourhay eserveray ndaay apricecay hattay hetay xperienceeay foay hree-and-twentytay earsyay adhay eenbay nsufficientiay otay akemay ishay ifeway nderstanduay ishay haractercay erhay indmay asway esslay ifficultday otay evelopday hesay asway aay omanway foay eanmay nderstandinguay ittlelay nformationiay ndaay ncertainuay empertay henway hesay asway iscontentedday hesay anciedfay erselfhay ervousnay hetay usinessbay foay erhay ifelay asway otay etgay erhay aughtersday arriedmay tsiay olacesay asway isitingvay ndaay ewsnay

**For a maximum grade of B on this project**: You can strip all punctuation, but you cannot ignore capitalization.

Paragraph 1:

Tiay siay aay ruthtay niversallyuay cknowledgedaay hattay aay inglesay anmay niay ossessionpay foay aay oodgay ortunefay ustmay ebay niay antway foay aay ifeway

Last paragraph:

Rmay Ennetbay asway osay ddoay aay ixturemay foay uickqay artspay arcasticsay umourhay eserveray ndaay apricecay hattay hetay xperienceeay foay hree-and-twentytay earsyay adhay eenbay nsufficientiay otay akemay ishay ifeway nderstanduay ishay haractercay Erhay indmay asway esslay ifficultday otay evelopday Hesay asway aay omanway foay eanmay nderstandinguay ittlelay nformationiay ndaay ncertainuay empertay Henway hesay asway iscontentedday hesay anciedfay erselfhay ervousnay Hetay usinessbay foay erhay ifelay asway otay etgay erhay aughtersday arriedmay tsiay olacesay asway isitingvay ndaay ewsnay

**For a maximum grade of A on this project:** Keep punctuation, and keep capitalization.

Paragraph 1:

Itay isay aay uthtray universallyay acknowledgeday, atthay aay inglesay anmay inay ossessionpay ofay aay oodgay ortunefay, ustmay ebay inay antway ofay aay ifeway.

Last paragraph:

Mray. Ennetbay asway osay odday aay ixturemay ofay uickqay artspay, arcasticsay umourhay, eserveray, anday apricecay, atthay ethay experienceay ofay ee-and-twentythray earsyay adhay eenbay insufficientay otay akemay ishay ifeway understanday ishay aracterchay. Erhay indmay asway esslay ifficultday otay evelopday. Eshay asway aay omanway ofay eanmay understandingay, ittlelay informationay, anday uncertainay empertay. Enwhay eshay asway iscontentedday, eshay anciedfay erselfhay ervousnay. Ethay usinessbay ofay erhay ifelay asway otay etgay erhay aughtersday arriedmay; itsay olacesay asway isitingvay anday ewsnay.

**For an extra 30 points:**

Get *all of the above* working. And then…

The way I learned Pig Latin, as a kid, was that you didn’t move the first letter if it was a vowel, and if the first two letters were both consonants, they moved together. So instead, could have your program follow that rule.

Paragraph 1 (differences bolded):

**Itay isay aay uthtray** **universallyay acknowledgeday**, **atthay aay** inglesay anmay **inay** ossessionpay **ofay aay** oodgay ortunefay, ustmay ebay **inay** antway **ofay aay** ifeway.

Last paragraph:

Mray. Ennetbay asway osay odday aay ixturemay ofay uickqay artspay, arcasticsay umourhay, eserveray, anday apricecay, atthay ethay experienceay ofay ee-and-twentythray earsyay adhay eenbay insufficientay otay akemay ishay ifeway understanday ishay aracterchay. Erhay indmay asway esslay ifficultday otay evelopday. Eshay asway aay omanway ofay eanmay understandingay, ittlelay informationay, anday uncertainay empertay. Enwhay eshay asway iscontentedday, eshay anciedfay erselfhay ervousnay. Ethay usinessbay ofay erhay ifelay asway otay etgay erhay aughtersday arriedmay; itsay olacesay asway isitingvay anday ewsnay.