

Assignment 4

due Thursday 31 October

Write a Python function `is_palindrome(s)` that takes a single string parameter `s` and that returns `True` if the letters within the string read the same left to right as they do right to left. All non-letters (spaces, punctuation etc.) are ignored and no distinction is made between upper and lowercase letters.

```
"Abba" ==> True
"August" ==> False
"" ==> True
"Able was I 'ere I saw Elba." ==> True
"Doc, note: I dissent. A fast never prevents a fatness. I diet on cod"
    ==> True
```

See <https://docs.python.org/3/library/stdtypes.html#string-methods> for a list of Python's string functions (`.isupper()`, `.isalpha()`, `.isdigit()` and so on.)

Take a look at <https://www.python.org/dev/peps/pep-0008/> that outlines some style guidelines for Python code, in particular its provisions on code layout (indentation, maximum line length and blank lines), comments (block and inline comments) and naming conventions. (You may ignore its recommendation to use docstrings for header comments for functions: use `#` instead.)