Astronomy 300 Week 1 Assignment (30 points) Winter 2017

The file `Constellations.csv` contain a list of the 88 constellations in the sky. The 5 columns in the files are `Name, Symbol, RA of center, Dec of center, Flag`. The `Flag` column letters are Z = Zodiacal constellation, A = Ancient Name, M = Modern Name (after 1603).

1. List the Zodiacal constellation in order of increasing RA.
2. List the constellations that are circumpolar as seen from Seattle ($\theta = +47.6$).
3. List the constellation that can **never** be seen from Seattle.
4. What is the percentage of all constellations, that have $\delta > 0$ and modern names?
5. What is the percentage of all constellations, that have $\delta < 0$, and modern names?
6. What constellation is closest to the Zenith, as seen from Seattle, on midnight on the first day of Spring?
7. What constellation is closest to the north celestial pole?
8. What constellation is closest to the south celestial pole?
9. What time of year (approximate date) is the best time to observe Orion?
10. What time of year (approximate date) is the best time to observe Andromeda?

Write your answers to a plain text file (do not use WORD) and name it: `HW1.txt`.

Or enter your answers directly into Canvas.

Upload this file to the class Canvas page

Deadline: Tuesday Jan 10 - 5pm (-10% for each 30 minutes late)

If you want to update your answers just upload with a new name (i.e. TobySmith2_HW1.txt).

As always, feel free to work with other people, but make sure to turn in your own assignment. Do not just turn in one group assignment.