1. Perform an SQL query at (<http://skyserver.sdss.org/dr17/SearchTools/sql>) to find potential binary stars

* binaryStar = apogeeStar where nvisits >= 8, vscatter > 10 verr
* Tutorials: <https://www.sdss4.org/dr17/irspec/use-radial-velocities/>

1. Find the period of those stars

* Use SQL to find the visits associated with the above binary stars: JOIN binaryStar AND apogeeStarVisit WHERE star.id = starVisit.id
* Build the Lomb-Scargle Periodograms using AstroPy’s library function (<https://docs.astropy.org/en/stable/timeseries/lombscargle.html>)
* The period is the time value at max power.
* Compile a file containing: star.id; period.

1. Apply the program to allStar file
2. Write a report