Project 5.25. National Weather Service web scraping

Web URL: [http://forecast.weather.gov/](http://forecast.weather.gov/MapClick.php?lat=37.7772&lon=-122.4168#.WiPQqbT1V-U)

Proposal: submit a code to realize the following function:

1. Input a csv file with the following information:
   1. Latitude & Longitude of US Locations (Total of around 33,000 locations extracted from the internet)
2. Get the 9-period weather forecast at [http://forecast.weather.gov/](http://forecast.weather.gov/MapClick.php?lat=37.7772&lon=-122.4168#.WiPQqbT1V-U) for the first 100 locations of the csv file
3. Return a csv file with the following information:
   1. Location
   2. Period (in a total of 9 periods for one location)
   3. Short Description of weather
   4. Temperature (Highest or Lowest)
4. Make a comprehensive file of all locations

Codes will be graded based on:

1. The format of the codes
2. The organization of the csv file
3. The speed of the codes
4. The extendibility of the codes
5. The results of Bonus 1

Estimated completion time: 50 hours. Time consumption depends on the codes’ quality.

Suggestive points:

Deadline:

Bonus points:

1. Work completion one day before the deadline will generate an extra 20% bonus.
2. Slides to explain the codes will give 50 points/page

Penalty:

1. Late delivery/missing deadline will incur -10% of finally determined points of the whole project per missing day.