Political Polling Challenge
PoCoS - Unit 02 Python Grande
Written by Andrew Young '23
Edited by Mr. Schlenker

Directions

1. Create a new VSC file and name it "politicalPolling.py"
2. Copy-paste the following **data** into the file:

```
democrats = [38.0, 46.0, 48.0, 48.0, 45.0, 48.0, 50.0, 47.0, 48.0, 41.0, 42.9, 48.0, 44.0, 45.47, 45.6, 36.0, 48.0, 46.3, 48.0, 45.0, 48.0, 48.0, 41.0, 48.0, 46.0, 47.0,
42.5, 50.5, 48.0, 48.0, 43.0, 44.8, 48.0, 46.0, 50.0, 33.0, 49.0, 44.7, 47.0, 44.4, 49.0, 45.0, 49.0, 46.0, 48.0, 49.0, 49.0, 46.0, 44.8, 44.0, 49.0, 37.0, 45.6, 48.0,
43.7, 46.0, 38.0, 45.0, 43.0, 48.0, 49.0, 47.0, 48.0, 45.0, 44.0, 45.0, 46.0, 48.0, 39.3, 45.6, 45.0, 48.0, 47.0, 42.0, 44.0, 45.2, 47.0, 46.0, 46.0, 34.0, 48.0, 45.5,
48.0, 49.0, 49.0, 46.0, 32.0, 48.0, 46.0, 48.0, 48.0, 47.1, 48.0, 43.0, 42.0, 50.0, 45.0, 48.0, 45.0, 47.0, 46.0, 47.0, 37.0, 48.0, 43.2, 46.0, 48.0, 44.0, 48.0, 47.0,
45.0, 48.0, 48.0, 41.0, 45.9, 42.2, 48.0, 48.0, 51.0, 48.0, 44.0, 42.0, 36.0, 48.0, 46.0, 47.0, 44.2, 45.0, 39.0, 47.0, 47.0, 44.0, 48.0, 47.0, 44.7, 48.0, 48.0, 42.0,
47.0, 48.0, 46.4, 41.4, 48.0, 48.0, 46.0, 47.0, 39.0, 47.0, 48.0, 45.0, 48.0, 43.6, 48.3, 45.0, 48.0, 48.0, 44.0, 47.0, 42.0, 47.0, 43.6, 47.0, 45.0, 42.18, 47.0, 43.7,
48.0, 50.0, 48.0, 38.0, 45.0, 47.0, 47.0, 47.2, 48.0, 34.0, 48.0, 47.0, 48.0, 45.0, 41.0, 47.0, 41.6, 48.0, 45.1, 45.0, 47.0, 46.0, 48.0, 43.0, 44.0, 48.0, 40.9, 46.2,
47.0, 47.0, 43.0, 45.0, 44.3, 45.0, 41.0, 46.0, 44.0, 45.0, 44.0, 35.0, 45.0, 44.8, 46.0, 45.0, 46.0, 45.0, 43.0, 45.0, 35.0, 44.0, 45.0, 44.0, 44.0, 45.0, 39.0, 45.0,
50.0, 49.0, 30.0, 45.0, 45.0, 46.0, 43.0, 41.7, 45.9, 46.0, 50.0, 44.0, 46.0, 41.0, 45.0, 45.0, 43.6, 45.0, 44.3, 45.0, 47.0, 45.0, 43.73, 45.0, 43.0, 44.0, 40.2, 45.0,
45.0, 39.0, 43.7, 46.7, 45.0, 48.0, 45.0, 42.6, 45.0, 48.0, 49.0, 43.0, 45.0, 45.0, 45.0, 45.0, 50.0, 39.3, 44.5, 45.0, 45.0, 39.0, 45.0, 41.0, 46.0, 45.0, 43.0, 45.0,
37.0, 43.0, 46.0, 45.0, 42.0, 46.0, 45.0, 45.0, 40.0, 41.0, 43.0, 42.0, 45.0, 34.0, 42.0, 45.0, 52.0, 45.0, 42.5, 45.0, 29.0, 45.0, 40.5, 47.4, 46.0, 45.0, 45.0, 41.0,
41.0, 50.0, 45.0, 42.0, 43.3, 45.0, 45.0, 40.0, 42.0, 45.0, 45.0, 39.0, 47.0, 46.0, 42.0, 44.0, 48.0, 45.0, 44.0, 44.0, 45.0, 44.0, 39.8, 40.0, 44.0, 44.0, 42.58, 44.0,
41.0, 44.0, 47.0, 47.0, 42.0, 43.0, 44.0, 44.7, 44.0, 38.8, 43.6, 44.0, 44.0, 41.0, 44.0, 40.0, 44.0, 42.0, 44.0, 44.0, 38.0, 43.0, 44.0, 44.0, 47.0, 43.0, 43.0, 43.0,
39.0, 47.0, 44.0, 39.0, 44.0, 43.0, 45.0, 44.0, 40.0, 41.0, 27.0, 42.0, 44.0, 44.0, 37.4, 43.0, 44.0, 44.0, 40.0, 44.0, 44.0, 43.0, 43.0, 43.0, 43.0, 43.0, 44.0, 43.0,
41.0, 42.3, 43.0, 44.0, 41.0, 44.0, 46.0, 45.0, 45.0, 44.0, 42.0, 38.0, 44.0, 37.3, 42.9, 44.0, 41.15, 49.0, 44.0, 39.0, 44.0, 43.0, 44.0, 44.0, 44.0, 42.0, 44.0, 42.0,
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42.0, 42.0, 37.0, 44.2, 43.0, 37.0, 44.0, 50.0, 42.0, 39.4, 45.0, 46.0, 42.0, 42.0, 42.7, 39.7, 42.0, 45.0, 49.0, 43.0, 42.0, 42.0, 42.0, 43.0, 39.0, 43.0, 43.0, 41.6,
43.0, 40.0, 43.0, 43.0, 40.7, 44.0, 42.0, 42.0, 43.0, 43.0, 41.9, 44.0, 43.0, 36.0, 44.0, 43.0, 43.0, 44.0, 43.0, 42.0, 43.0, 43.0, 42.0, 43.0, 40.7, 43.0, 42.0, 37.8,
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43.0, 43.0, 39.8, 44.0, 43.0, 42.0, 36.0, 42.0, 46.0, 46.0, 40.0, 43.0, 43.0, 43.0, 36.5, 41.9, 43.0, 43.0, 43.0, 40.0, 43.0, 44.3, 43.0, 41.0, 43.0, 43.0, 42.0, 43.0,
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42.0, 41.4, 41.0, 38.9, 41.0, 42.0, 43.0, 37.0, 44.0, 42.0, 43.0, 42.2, 42.0, 43.0, 44.0, 41.0, 42.0, 41.0, 39.2, 44.5, 41.0, 42.0, 42.0, 42.0, 41.0, 43.0, 42.6, 43.0,
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42.4, 39.7, 44.0, 42.0, 43.0, 44.0, 44.0, 44.0, 44.0, 44.0, 43.0, 40.0, 42.3, 44.0, 43.0, 43.0, 43.0, 43.0, 43.0, 43.0, 38.5, 43.0, 43.0, 44.0, 43.0, 44.0, 44.0, 44.0,
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38.0, 44.0, 44.0, 45.0, 44.0, 44.0, 42.0, 44.0, 44.0, 44.0, 44.0, 34.0, 44.0, 50.0, 44.0, 37.0, 43.0, 35.0, 43.0, 42.0, 44.0, 44.0, 44.0, 44.0, 44.0, 43.0, 44.0, 40.0,
44.0, 41.0, 44.0, 42.0, 43.0, 38.0, 43.0, 42.0, 46.0, 42.0, 46.0, 49.0, 44.0, 42.0, 44.0, 44.0, 43.0, 44.0, 38.0, 41.0, 44.0, 43.0, 43.0, 44.0, 38.0, 44.0, 43.0, 41.0,
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40.0, 44.0, 43.0, 44.0, 44.0, 40.0, 43.0, 43.0, 43.0, 43.0, 44.0, 43.0, 44.0, 43.0, 44.0, 37.0, 44.0, 44.0, 44.0, 44.0, 44.0, 37.0, 52.0, 44.0, 44.0, 45.0, 44.0, 46.0,
44.0, 45.0, 44.0, 44.0, 47.0, 50.0, 41.0, 44.0, 44.0, 52.0, 44.0, 44.0, 44.0, 45.0, 44.0, 44.0, 44.0, 44.0, 44.0, 46.0, 44.0, 43.0, 45.0, 47.0, 43.0, 44.0, 40.0, 44.0,
44.0, 44.0, 44.0, 46.0, 42.0, 44.0, 43.0, 45.0, 45.0, 43.0, 43.0, 43.0, 43.0, 44.0, 46.0, 49.0, 44.0, 44.0, 45.0, 44.0, 44.0, 40.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0,
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44.0, 45.0, 45.0, 44.0, 45.0, 45.0, 44.0, 44.0, 41.7, 44.0, 44.0, 44.0, 43.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 45.0, 44.0, 44.0, 41.0, 43.0, 44.0,
44.0, 44.0, 46.0, 44.0, 46.0, 44.0, 46.0, 44.0, 44.0, 44.0, 37.0, 43.0, 43.0, 41.0, 44.0, 44.0, 44.0, 44.0, 44.0, 46.0, 43.0, 44.0, 46.0, 46.0, 43.0, 43.0, 43.0, 41.0,
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44.0, 44.0, 44.0, 44.0, 43.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 45.0, 44.0, 46.0, 44.0, 44.0, 44.0, 45.0, 45.0, 45.0, 45.0, 45.0, 45.0, 45.0, 45.0,
45.0, 45.0, 44.0, 44.0, 44.0, 44.0, 44.0, 45.0, 45.0, 39.0, 45.0, 46.0, 44.0, 44.0, 44.0, 39.0, 44.0, 44.0, 48.0, 48.0, 47.0, 44.0, 44.0, 45.0, 45.0, 45.0, 44.0, 45.0,
45.0, 45.0, 45.0, 45.0, 45.0, 44.0, 44.0, 44.0, 44.0, 45.0, 45.0, 45.0, 45.0, 45.0, 44.0, 45.0, 44.0, 45.0, 45.0, 45.0, 45.0, 46.0, 45.0]
republicans = [34.0, 44.0, 45.0, 45.0, 47.0, 45.0, 50.0, 53.0, 45.0, 48.0, 48.2, 45.0, 41.0, 48.51, 46.2, 32.0, 45.0, 43.7, 46.0, 43.0, 48.0, 46.0, 34.0, 45.0, 42.0, 45.0,
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44.0, 44.0, 42.0, 34.0, 29.0, 44.0, 41.0, 45.0, 45.0, 46.9, 45.0, 46.0, 43.0, 47.0, 47.0, 45.0, 39.0, 41.0, 44.0, 46.0, 33.0, 45.0, 39.3, 46.0, 45.0, 41.0, 44.0, 42.0,
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45.0, 43.0, 37.7, 47.2, 45.0, 44.0, 42.0, 43.0, 38.0, 42.0, 44.0, 46.0, 45.0, 35.7, 40.8, 47.0, 44.0, 44.0, 42.0, 44.0, 47.0, 44.0, 44.6, 45.0, 45.0, 44.98, 45.0, 38.5,
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45.0, 45.0, 46.0, 43.0, 38.4, 42.0, 41.0, 42.0, 42.0, 44.0, 43.0, 31.0, 42.0, 44.3, 42.0, 42.0, 46.0, 42.0, 46.0, 43.0, 33.0, 48.0, 43.0, 38.7, 45.0, 42.0, 32.0, 39.0,
43.0, 46.0, 30.0, 43.0, 42.0, 42.0, 45.0, 37.5, 42.3, 42.0, 50.0, 45.0, 41.0, 46.0, 42.0, 42.0, 38.3, 42.0, 40.1, 48.0, 41.0, 41.0, 42.52, 42.0, 48.2, 42.0, 48.3, 42.0,
42.0, 49.0, 44.7, 47.3, 42.0, 46.0, 42.0, 40.1, 42.0, 44.0, 42.0, 44.0, 44.0, 41.0, 42.0, 42.0, 48.0, 38.0, 40.7, 42.0, 42.0, 47.0, 42.0, 44.0, 46.0, 42.0, 39.6, 42.0,
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49.0, 50.0, 42.0, 47.0, 45.7, 42.0, 42.0, 45.0, 46.0, 42.0, 38.0, 32.0, 47.0, 48.0, 39.0, 42.0, 41.0, 42.0, 42.0, 43.0, 46.0, 43.0, 49.4, 48.0, 43.0, 48.0, 42.76, 43.0,
45.0, 42.0, 46.0, 45.0, 42.0, 47.0, 42.0, 48.9, 42.0, 36.9, 42.2, 42.0, 42.0, 46.0, 42.0, 39.5, 42.0, 46.0, 42.0, 47.0, 34.0, 39.0, 42.0, 42.0, 49.0, 42.0, 42.0, 42.0,
48.0, 44.0, 42.0, 37.0, 43.0, 45.0, 47.0, 43.0, 44.0, 46.0, 29.0, 42.0, 43.0, 42.0, 38.0, 43.8, 43.0, 43.0, 48.0, 42.0, 42.0, 43.0, 42.0, 43.0, 42.0, 42.0, 45.0, 42.0,
47.0, 45.2, 43.0, 43.0, 45.0, 43.0, 43.0, 45.0, 41.0, 42.0, 38.0, 36.0, 42.0, 37.6, 43.2, 42.0, 43.27, 51.0, 42.0, 48.0, 42.0, 40.0, 42.0, 42.0, 42.0, 41.0, 42.0, 47.0,
47.0, 47.8, 42.0, 42.0, 47.0, 42.0, 42.0, 42.0, 42.0, 49.0, 42.0, 46.0, 42.0, 42.0, 48.0, 50.0, 38.0, 42.0, 42.0, 45.0, 36.8, 42.0, 43.0, 41.0, 39.0, 33.0, 49.0, 42.0,
29.0, 42.0, 43.0, 42.0, 47.0, 42.0, 43.0, 42.0, 46.0, 45.0, 42.0, 42.0, 45.0, 42.0, 45.0, 39.3, 42.0, 49.0, 46.8, 42.0, 48.0, 47.0, 42.0, 42.0, 44.0, 45.0, 42.0, 51.0,
42.0, 36.0, 37.1, 42.2, 42.0, 34.0, 40.0, 50.0, 42.0, 48.1, 47.0, 46.0, 43.0, 42.0, 38.2, 40.7, 42.0, 47.4, 51.0, 42.0, 42.0, 43.0, 43.0, 42.0, 47.0, 42.0, 42.0, 39.2,
42.0, 43.0, 42.0, 42.0, 35.9, 43.1, 42.0, 43.0, 43.0, 43.0, 37.7, 43.0, 43.0, 34.0, 41.0, 44.0, 47.0, 43.0, 42.0, 42.0, 46.0, 42.0, 43.0, 43.0, 38.6, 43.0, 41.0, 38.4,
```

42.3, 42.0, 43.0, 40.0, 43.0, 53.0, 43.0, 42.0, 40.96, 42.0, 38.7, 46.0, 48.0, 42.0, 41.0, 45.0, 44.0, 43.0, 40.0, 49.28, 47.1, 42.0, 46.7, 42.0, 42.0, 47.0, 42.0, 50.0,
42.0, 43.0, 40.6, 45.0, 43.0, 43.0, 33.0, 38.0, 45.0, 46.0, 41.0, 42.0, 43.0, 42.0, 38.5, 44.4, 42.0, 42.0, 43.0, 48.0, 42.0, 38.8, 42.0, 46.0, 41.0, 42.0, 42.0, 42.0,
43.0, 42.0, 42.0, 43.0, 38.3, 44.0, 41.0, 44.0, 33.0, 39.0, 45.0, 36.7, 41.2, 45.0, 51.0, 41.94, 43.0, 44.0, 49.0, 43.0, 44.0, 40.0, 42.0, 43.0, 37.6, 49.0, 47.0, 41.0,
43.0, 49.9, 44.0, 37.3, 44.0, 43.0, 43.0, 50.0, 44.0, 43.0, 43.0, 37.2, 43.0, 45.0, 46.0, 43.0, 44.0, 44.0, 35.5, 41.5, 44.0, 45.0, 43.0, 43.0, 47.0, 43.0, 39.3, 41.0,
43.0, 34.0, 43.0, 42.0, 54.4, 44.0, 42.0, 42.0, 43.0, 42.0, 42.0, 38.0, 42.0, 41.0, 42.0, 42.0, 37.4, 43.8, 43.0, 47.0, 47.1, 43.0, 43.0, 43.0, 38.5, 43.0, 41.9, 50.0,
51.0, 42.0, 49.0, 41.0, 43.0, 43.0, 43.0, 53.0, 44.0, 44.0, 44.0, 38.6, 46.0, 48.0, 44.0, 44.0, 42.0, 44.0, 44.0, 55.6, 34.7, 41.6, 43.0, 42.0, 48.0, 42.0, 42.0,
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Data notes:

- Every generic ballot poll conducted since 1/1/2022, asking “Do voters want Republicans or Democrats in Congress?” and the end date the poll was conducted.
- To figure out the net result of a poll, you take a number from the democrats list and subtract it from a corresponding number from the republicans list. A negative result means republicans lead

3. Think about your hypotheses to the following "**analysis questions**":

    a. Which party has a higher average (including all the data)? What is the net average?
    b. What is the range of each party's support (max-min for the whole dataset)?
    c. When does the lead switch? Use a 30-poll moving average to answer this question.

4. **Write the code** to answer the "analysis questions" with the following **analyses**:

    a. Calculate the average overall lead and then the polling lead of the party ahead
        i. If Democrats are leading, put a “D+” before the net average, if republicans are leading, vice versa

        Democrats average: XX.X
        Republicans average: XX.X
        Net average: D+ YY.Y

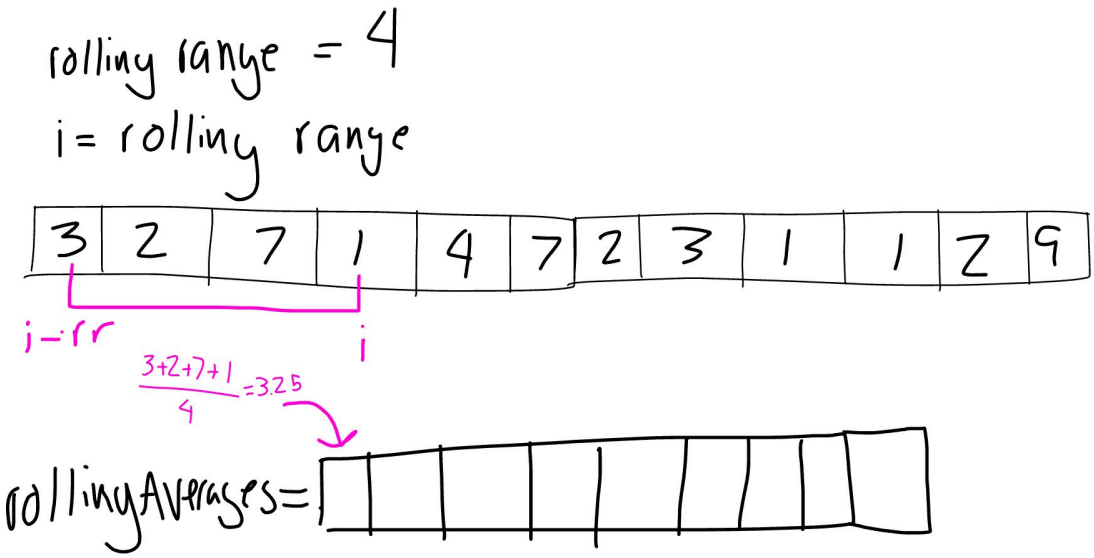
        XXX is the average for a party. YY is the difference between the parties’ averages, with a negative average indicating a republican lead. Numbers should have tabs and line up and be to only 1 decimal place.

    b. Calculate the range of support within each party's results (highest - lowest):

        Democrats range: XX.X
        Republicans range: XX.X

        Numbers should have tabs and line up.

    c. Let’s use a rolling average to find out where the lead switches
        i. First, let's learn what a rolling average is by using a simple four-slot moving average
        ii. For each slot, take the average from the current index (which starts at the range of the rolling average) to the slot at that index minus the rolling average and append this new value to the list of rolling averages



iii. We will average the last 200 polls to smooth out the bumps and get a clearer answer
iv. Create 2 empty lists - one for the rolling average for each party
v. Now take what you learned and create a 200-long rolling average of the polls
vi. Then, using the dates array, print out all the dates where the lead in the rolling average switches - either democrats start ahead, and in the next average, republicans are ahead, or the opposite happens

(Note: the first average is at dates[rollingRange], not at dates[0])

Lead switches on: M1/D1/Y, M2/D2/Y, M3/D3/Y…

Dates should start indented with a tab and line up. They should be separated by commas, but make sure not to include the trailing comma

5. After you get it to work, try to **condense your code** as much as possible.
   Also, make sure to follow all the **programming conventions** (in this doc).

6. Show Mr. Schlenker your code to get credit.