NBA Points 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,
43.0, 45.1, 44.0, 43.0, 42.0, 43.0, 47.0, 43.0, 44.0, 51.0, 44.0, 46.0, 43.0, 44.0, 44.0, 43.0, 44.0, 43.0, 43.0, 44.0, 39.2, 45.3, 42.0, 44.0, 43.0, 37.0, 42.0, 43.0,
27.0, 43.0, 43.0, 43.0, 53.0, 43.0, 43.0, 42.0, 39.0, 44.0, 42.0, 42.0, 44.0, 43.0, 46.0, 42.1, 43.0, 39.0, 40.6, 43.0, 43.0, 44.0, 42.0, 43.0, 40.0, 42.0, 42.0, 39.0,
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,
45.0, 44.0, 43.0, 34.0, 43.0, 47.0, 43.0, 43.0, 39.31, 43.0, 43.1, 44.0, 44.0, 43.0, 42.0, 45.0, 45.0, 41.0, 42.0, 50.63, 41.8, 42.0, 45.9, 43.0, 42.0, 44.0, 43.0, 39.0,
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,
42.0, 43.0, 43.0, 42.0, 42.2, 41.0, 42.0, 41.0, 36.0, 42.0, 41.0, 38.5, 44.5, 41.0, 49.0, 38.92, 45.0, 41.0, 42.0, 42.0, 45.0, 39.0, 41.0, 42.0, 43.9, 45.0, 45.0, 45.0,
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,
43.0, 42.0, 42.0, 43.0, 41.9, 43.0, 43.0, 43.0, 43.0, 43.0, 43.0, 44.0, 44.0, 44.0, 44.0, 43.0, 38.1, 44.1, 43.0, 43.0, 44.8, 42.0, 43.0, 43.0, 42.0, 43.0, 43.7, 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,
42.5, 44.0, 43.0, 44.0, 41.0, 44.0, 45.0, 42.0, 42.0, 43.0, 44.0, 44.0, 43.5, 44.0, 40.0, 44.0, 44.0, 42.0, 44.0, 39.0, 39.0, 43.0, 44.0, 47.0, 39.0, 44.0, 44.0, 44.0,
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,
44.0, 44.0, 32.0, 44.0, 36.0, 44.0, 44.0, 44.0, 37.7, 44.0, 42.0, 43.0, 50.0, 49.0, 43.0, 43.0, 44.0, 43.0, 42.0, 43.0, 40.0, 44.0, 44.0, 42.0, 44.0, 44.0, 44.0, 43.0,
47.0, 43.0, 43.0, 44.0, 43.0, 43.0, 44.0, 44.0, 37.0, 44.0, 44.0, 44.0, 42.0, 46.0, 46.0, 45.0, 43.0, 47.0, 43.0, 43.0, 43.0, 44.0, 39.0, 44.0, 40.0, 44.0, 44.0, 45.0,
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,
44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 50.0, 38.0, 46.0, 45.0, 43.0, 47.0, 40.0, 45.0, 45.0, 45.0, 45.0, 45.0, 45.0, 44.0, 45.0, 44.0, 44.0, 42.0, 45.0, 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, 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,
43.0, 44.0, 44.0, 44.0, 43.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 46.0, 39.0, 44.0, 49.0, 50.0, 44.0, 43.0, 43.0, 43.0, 43.0, 44.0, 47.0, 46.0, 44.0, 50.0, 44.0,
43.0, 43.0, 43.0, 43.0, 44.0, 45.0, 44.0, 41.0, 44.0, 45.0, 43.9, 41.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 44.0, 43.0, 43.0, 43.0, 44.0, 44.0, 44.0,
45.0, 43.0, 46.0, 43.0, 43.0, 43.0, 45.0, 47.0, 48.0, 43.0, 44.0, 43.0, 44.0, 44.0, 39.0, 43.0, 43.0, 43.0, 46.0, 44.0, 44.0, 45.0, 44.0, 44.0, 44.0, 44.0, 39.8, 44.0,
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, 44.0, 45.0, 45.0, 45.0, 45.0, 45.0, 44.0, 45.0, 44.0, 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,
37.8, 45.1, 45.0, 45.0, 47.0, 42.7, 45.0, 43.0, 47.0, 32.0, 44.0, 44.0, 46.0, 46.5, 44.0, 47.0, 44.0, 43.0, 44.0, 44.0, 44.0, 44.0, 43.79, 45.0, 44.0, 32.0, 51.3, 44.0,
44.1, 47.0, 33.0, 41.0, 44.0, 44.0, 43.0, 43.0, 44.0, 43.0, 47.0, 47.0, 42.0, 44.0, 37.8, 41.3, 46.0, 44.0, 44.0, 44.0, 48.0, 44.8, 45.0, 47.0, 51.0, 33.0, 45.0, 40.5,
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,
45.0, 42.0, 44.0, 36.8, 40.6, 47.9, 44.0, 46.0, 49.0, 45.0, 45.0, 46.0, 34.0, 45.0, 46.0, 44.0, 37.5, 40.0, 34.0, 45.0, 45.0, 46.0, 45.0, 45.0, 43.5, 45.0, 44.0, 47.0,
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,
45.0, 42.0, 44.0, 33.0, 39.0, 44.0, 42.0, 46.5, 45.0, 31.0, 45.0, 45.0, 44.0, 41.0, 46.0, 45.0, 46.9, 44.0, 38.7, 47.0, 44.0, 42.0, 45.0, 47.0, 42.0, 45.0, 37.2, 41.8,
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,
32.0, 39.0, 42.0, 42.0, 44.0, 41.0, 42.0, 42.0, 48.0, 40.0, 44.0, 47.0, 42.0, 35.0, 50.0, 42.0, 48.0, 42.0, 40.4, 46.0, 29.0, 42.0, 36.3, 41.6, 42.0, 41.0, 42.0, 45.0,
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 of 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 with the appropriate symbol:

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

        Or

        Democrats average: XX.X
        Republicans average: XX.X
        Net average: R+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.

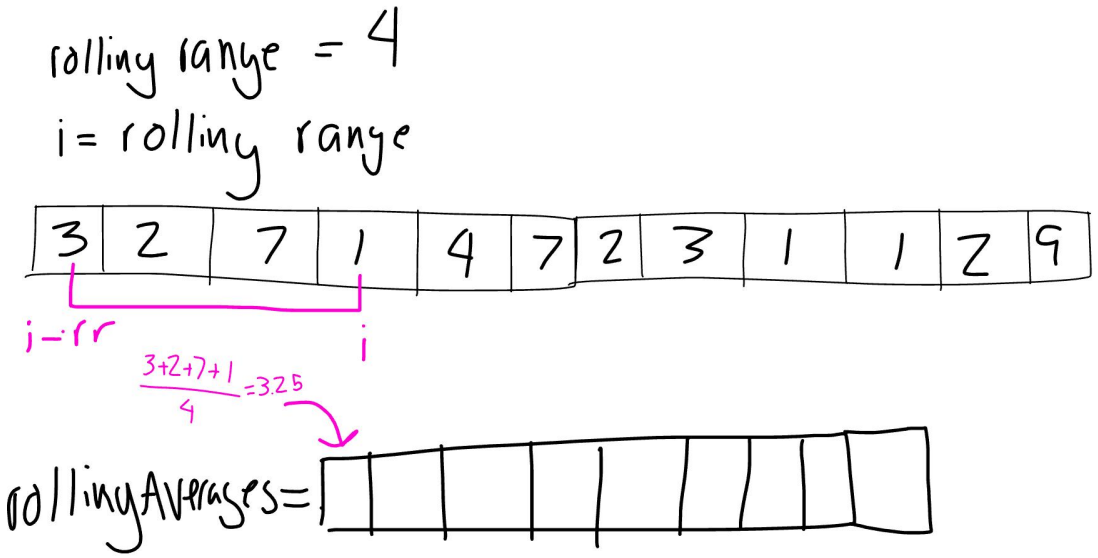
    b. Calculate the range of support within each party's results (highest - lowest):

        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 lets learn what a rolling average is by using a simple for slot moving average
ii. For each slot take the average from the current index (which starts at the rolling average range), to the slot index - 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 an empty list of the rolling averages 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 both averages are the same (Note: the first average is at dates[rollingRange], not a 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 to not 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.