Your analysis should look at the relationship between all data fields and their changes over time. In a brief statement, describe any changes or patterns you observe, and propose an explanation for them. Include this in your GitHub repository.

The factor element increases over time in a cubic relationship, starting at 1 at the beginning of the hour, then 8 a minute later, then 27, then 64, and so on, until it reaches 205379/the end of the hour, upon which the factor element resets to 1. Additionally, when the factor element is 1, the pi element is equal to 4.0. Then with each subsequent increase in the factor element, the pi element oscillates between being slightly belowthe true value of pi and slightly above the true value of pi. It alternates in a below-above-below-above pattern. As the factor increases, it gets ever closer to the true value of pi until the factor resets to 1 and the pi element goes back to 4. It may have something to do with whether the factor is an even or an odd number. When the factor is an odd number, the pi element is above true pi. When the factor is an even number, the pi element is below true pi

**Documentation/Process:** I ran a for loop that executed 60 times by running requests.get on the API and appended it to a pandas data frame. To ensure it only ran once every minute, I included a time.sleep(60) statement at the end of the for loop.

	factor	pi		time
0	39304	3.141567	2024-04-30	01:34:31
1	42875	3.141616	2024-04-30	01:35:32
2	46656	3.141571	2024-04-30	01:36:32
3	50653	3.141612	2024-04-30	01:37:32
4	54872	3.141574	2024-04-30	01:38:32
5	59319	3.141610	2024-04-30	01:39:32
6	64000	3.141577	2024-04-30	01:40:33
7	68921	3.141607	2024-04-30	01:41:33
8	74088	3.141579	2024-04-30	01:42:33
9	79507	3.141605	2024-04-30	01:43:33
10	85184	3.141581	2024-04-30	01:44:34
11	91125	3.141604	2024-04-30	01:45:34
12	97336	3.141582	2024-04-30	01:46:34
13	103823	3.141602	2024-04-30	01:47:35
14	110592	3.141584	2024-04-30	01:48:35
15	117649	3.141601	2024-04-30	01:49:35
16	125000	3.141585	2024-04-30	01:50:35
17	132651	3.141600	2024-04-30	01:51:36
18	140608	3.141586	2024-04-30	01:52:36
19	148877	3.141599	2024-04-30	01:53:37
20	157464	3.141586	2024-04-30	01:54:37
21	166375	3.141599	2024-04-30	01:55:37
22	175616	3.141587	2024-04-30	01:56:38
23	185193	3.141598	2024-04-30	01:57:38
24	195112	3.141588	2024-04-30	01:58:39
25	205379	3.141598	2024-04-30	01:59:40
26	1	4.000000	2024-04-30	02:00:40
27	1	4.000000	2024-04-30	02:01:40
28	8	3.017072	2024-04-30	02:02:40
29	27	3.178617	2024-04-30	02:03:40
30	64	3.125969	2024-04-30	02:04:40

```
31
       125
            3.149593
                      2024-04-30 02:05:41
32
       216
            3.136963
                      2024-04-30 02:06:41
33
       343
            3.144508
                      2024-04-30 02:07:41
34
       512
            3.139640
                      2024-04-30 02:08:41
                      2024-04-30 02:09:41
35
       729
            3.142964
      1000
36
            3.140593
                      2024-04-30 02:10:41
37
                      2024-04-30 02:11:41
      1331
            3.142344
                      2024-04-30 02:12:41
38
      1728
            3.141014
39
            3.142048
                      2024-04-30 02:13:41
      2197
40
                      2024-04-30 02:14:41
      2744
            3.141228
41
            3.141889
                      2024-04-30 02:15:42
      3375
42
      4096
            3.141349
                      2024-04-30 02:16:42
43
            3.141796
                      2024-04-30 02:17:42
      4913
44
            3.141421
                      2024-04-30 02:18:42
      5832
45
      6859
            3.141738
                      2024-04-30 02:19:42
46
      8000
            3.141468
                       2024-04-30 02:20:42
47
            3.141701
                       2024-04-30 02:21:42
      9261
     10648
            3.141499
                      2024-04-30 02:22:42
48
49
     12167
            3.141675
                      2024-04-30 02:23:42
50
     13824
            3.141520
                      2024-04-30 02:24:43
            3.141657
                      2024-04-30 02:25:43
51
     15625
                      2024-04-30 02:26:43
52
     17576
            3.141536
     19683
            3.141643
                      2024-04-30 02:27:43
53
     21952
                      2024-04-30 02:28:43
54
            3.141547
55
     24389
            3.141634
                      2024-04-30 02:29:43
                      2024-04-30 02:30:43
56
     27000
            3.141556
57
            3.141626
                       2024-04-30 02:31:43
     29791
58
            3.141562
                       2024-04-30 02:32:44
     32768
59
     35937
            3.141620
                       2024-04-30 02:33:44
```