

# Problem set 4

2025-10-02

In the next problem set, we plan to explore the relationship between COVID-19 death rates and vaccination rates across US states by visually examining their correlation. This analysis will involve gathering COVID-19 related data from the CDC's API and then extensively processing it to merge the various datasets. Since the population sizes of states vary significantly, we will focus on comparing rates rather than absolute numbers. To facilitate this, we will also source population data from the US Census to accurately calculate these rates.

In this problem set we will learn how to extract and wrangle data from the data US Census and CDC APIs.

1. Get an API key from the US Census at [https://api.census.gov/data/key\\_signup.html](https://api.census.gov/data/key_signup.html). You can't share this public key. But your code has to run on a TFs computer. Assume the TF will have a file in their working directory named `census-key.R` with the following one line of code:

```
census_key <- "A_CENSUS_KEY_THAT_WORKS"
```

Write a first line of code for your problem set that defines `census_key` by running the code in the file `census-key.R`.

```
source("census-key.R")
```

2. The [US Census API User Guide](#) provides details on how to leverage this valuable resource. We are interested in vintage population estimates for years 2021 and 2022. From the documentation we find that the *endpoint* is:

```
url <- "https://api.census.gov/data/2021/pep/population"
```

Use the `httr2` package to construct the following GET request.

`https://api.census.gov/data/2021/pep/population?get=POP_2020,POP_2021,NAME&for=state:*&key=Y`

Create an object called `request` of class `httr2_request` with this URL as an endpoint. Hint: Print out `request` to check that the URL matches what we want.

```
library(httr2)
request <- request(url) |> req_url_query(get = "POP_2020,POP_2021,NAME",
  ↪ `for` = "state:", key = census_key)
```

3. Make a request to the US Census API using the `request` object. Save the response to an object named `response`. Check the response status of your request and make sure it was successful. You can learn about *status codes* [here](#).

```
response <- request |> req_perform()
```

4. Use a function from the **httr2** package to determine the content type of your response.

```
resp_content_type(response)
```

```
[1] "application/json"
```

5. Use just one line of code and one function to extract the data into a matrix. Hints: 1) Use the `resp_body_json` function. 2) The first row of the matrix will be the variable names and this OK as we will fix in the next exercise.

```
population <- resp_body_json(response, simplifyVector = TRUE)
```

6. Examine the `population` matrix you just created. Notice that 1) it is not tidy, 2) the column types are not what we want, and 3) the first row is a header. Convert `population` to a tidy dataset. Remove the state ID column and change the name of the column with state names to `state_name`. Add a column with state abbreviations called `state`. Make sure you assign the abbreviations for DC and PR correctly. Hint: Use the **janitor** package to make the first row the header.

```
library(tidyverse)
library(janitor)
population <- population |>
  row_to_names(row_number = 1) |>
  as_tibble() |>
  select(-state) |>
```

```

rename(state_name = NAME) |>
pivot_longer(
  cols = starts_with("POP_"),
  names_to = "year",
  values_to = "population"
) |>
mutate(
  year = parse_number(year),
  population = parse_number(population),
  state = case_when(
    state_name == "District of Columbia" ~ "DC",
    state_name == "Puerto Rico" ~ "PR",
    TRUE ~ state.abb[match(state_name, state.name)]
  )
) |>
relocate(state, .after = state_name)
population

```

```

# A tibble: 104 x 4
  state_name state year population
  <chr>      <chr> <dbl>    <dbl>
1 Oklahoma   OK      2020    3962031
2 Oklahoma   OK      2021    3986639
3 Nebraska   NE      2020    1961455
4 Nebraska   NE      2021    1963692
5 Hawaii     HI      2020    1451911
6 Hawaii     HI      2021    1441553
7 South Dakota SD      2020     887099
8 South Dakota SD      2021     895376
9 Tennessee  TN      2020    6920119
10 Tennessee TN      2021    6975218
# i 94 more rows

```

7. As a check, make a barplot of states' 2021 and 2022 populations. Show the state names in the y-axis ordered by population size. Hint: You will need to use **reorder** and use **facet\_wrap**.

```

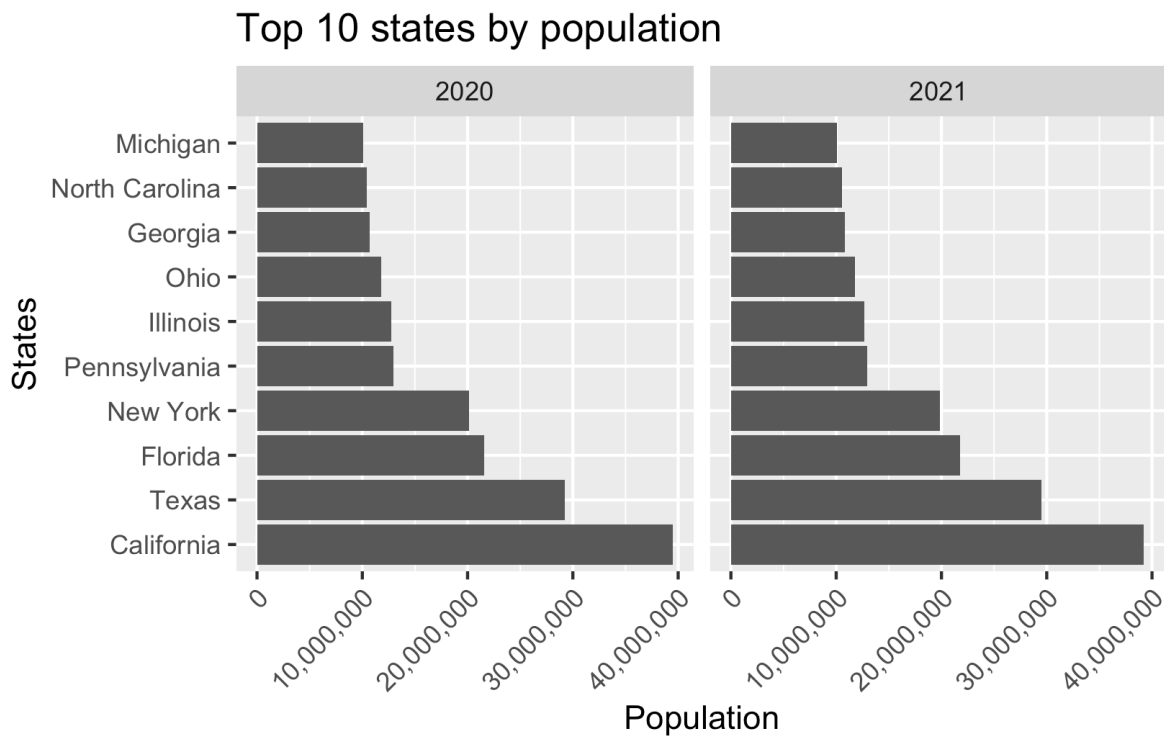
population |>
filter(year %in% c(2020, 2021)) |>
group_by(year) |>
slice_max(population, n = 10, with_ties = FALSE) |>

```

```

ungroup() |>
ggplot(aes(x = reorder(state_name, -population), y = population)) +
  geom_col() +
  coord_flip() +
  facet_wrap(~ year) +
  scale_y_continuous(labels = scales::label_comma()) +
  labs(x = "States", y = "Population", title = "Top 10 states by population")
  ↪ +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))

```



8. The following URL:

```

url <-
  ↪ "https://github.com/datasciencelabs/2025/raw/refs/heads/main/data/regions.json"

```

points to a JSON file that lists the states in the 10 Public Health Service (PHS) defined by CDC. We want to add these regions to the `population` dataset. To facilitate this create a data frame called `regions` that has two columns `state_name`, `region`, `region_name`. One of the regions has a long name. Change it to something shorter.

```

library(jsonlite)
library(purrr)
regions <- fromJSON(url) |>
  as_tibble() |>
  unnest(states) |>
  transmute(
    state_name = states,
    region     = as.integer(region),
    region_name = region_name
  ) |>
  mutate(
    region_name = if_else(
      region_name == "New York and New Jersey, Puerto Rico, Virgin Islands",
      "NY/NJ & Territories",
      region_name
    )
  )
regions

```

```

# A tibble: 59 x 3
  state_name      region region_name
  <chr>          <int> <chr>
1 Connecticut      1 New England
2 Maine            1 New England
3 Massachusetts    1 New England
4 New Hampshire    1 New England
5 Rhode Island     1 New England
6 Vermont          1 New England
7 New Jersey       2 NY/NJ & Territories
8 New York         2 NY/NJ & Territories
9 Puerto Rico      2 NY/NJ & Territories
10 Virgin Islands  2 NY/NJ & Territories
# i 49 more rows

```

9. Add a region and region name columns to the population data frame.

```

population <- left_join(population, regions, by = "state_name")
population

```

```

# A tibble: 104 x 6
  state_name state year population region region_name

```

	<chr>	<chr>	<dbl>	<dbl>	<int>	<chr>
1	Oklahoma	OK	2020	3962031	6	South Central
2	Oklahoma	OK	2021	3986639	6	South Central
3	Nebraska	NE	2020	1961455	7	Central Plains
4	Nebraska	NE	2021	1963692	7	Central Plains
5	Hawaii	HI	2020	1451911	9	Pacific
6	Hawaii	HI	2021	1441553	9	Pacific
7	South Dakota	SD	2020	887099	8	Mountain States
8	South Dakota	SD	2021	895376	8	Mountain States
9	Tennessee	TN	2020	6920119	4	Southeast
10	Tennessee	TN	2021	6975218	4	Southeast

# i 94 more rows

10. From reading <https://data.cdc.gov/> we learn the endpoint <https://data.cdc.gov/resource/pwn4-m3yp> provides state level data from SARS-COV2 cases. Use the **httr2** tools you have learned to download this into a data frame. Is all the data there? If not, comment on why.

```
api <- "https://data.cdc.gov/resource/pwn4-m3yp.json"
cases_raw <- request(api) |>
  req_perform() |>
  resp_body_json(simplifyDataFrame = TRUE)
cases_raw
```

	date_updated	state	start_date
1	2023-02-23T00:00:00.000	AZ	2023-02-16T00:00:00.000
2	2022-12-22T00:00:00.000	LA	2022-12-15T00:00:00.000
3	2023-02-23T00:00:00.000	GA	2023-02-16T00:00:00.000
4	2023-03-30T00:00:00.000	LA	2023-03-23T00:00:00.000
5	2023-02-02T00:00:00.000	LA	2023-01-26T00:00:00.000
6	2023-03-23T00:00:00.000	LA	2023-03-16T00:00:00.000
7	2023-04-27T00:00:00.000	LA	2023-04-20T00:00:00.000
8	2023-03-16T00:00:00.000	NV	2023-03-09T00:00:00.000
9	2023-05-11T00:00:00.000	FL	2023-05-04T00:00:00.000
10	2022-10-27T00:00:00.000	NYC	2022-10-20T00:00:00.000
11	2022-09-29T00:00:00.000	KS	2022-09-22T00:00:00.000
12	2023-02-09T00:00:00.000	VA	2023-02-02T00:00:00.000
13	2022-12-08T00:00:00.000	OK	2022-12-01T00:00:00.000
14	2023-02-16T00:00:00.000	VA	2023-02-09T00:00:00.000
15	2023-04-27T00:00:00.000	IL	2023-04-20T00:00:00.000
16	2022-11-10T00:00:00.000	DC	2022-11-03T00:00:00.000
17	2022-11-03T00:00:00.000	DC	2022-10-27T00:00:00.000
18	2022-11-03T00:00:00.000	KS	2022-10-27T00:00:00.000

19	2020-04-30T00:00:00.000	AK 2020-04-23T00:00:00.000
20	2020-04-23T00:00:00.000	AK 2020-04-16T00:00:00.000
21	2020-03-05T00:00:00.000	AK 2020-02-27T00:00:00.000
22	2020-04-16T00:00:00.000	AK 2020-04-09T00:00:00.000
23	2020-07-09T00:00:00.000	AK 2020-07-02T00:00:00.000
24	2020-07-02T00:00:00.000	AK 2020-06-25T00:00:00.000
25	2020-07-16T00:00:00.000	AK 2020-07-09T00:00:00.000
26	2020-07-23T00:00:00.000	AK 2020-07-16T00:00:00.000
27	2020-07-30T00:00:00.000	AK 2020-07-23T00:00:00.000
28	2020-08-06T00:00:00.000	AK 2020-07-30T00:00:00.000
29	2020-08-13T00:00:00.000	AK 2020-08-06T00:00:00.000
30	2020-08-20T00:00:00.000	AK 2020-08-13T00:00:00.000
31	2020-04-09T00:00:00.000	AK 2020-04-02T00:00:00.000
32	2020-02-27T00:00:00.000	AK 2020-02-20T00:00:00.000
33	2020-02-06T00:00:00.000	AK 2020-01-30T00:00:00.000
34	2020-06-25T00:00:00.000	AK 2020-06-18T00:00:00.000
35	2020-06-18T00:00:00.000	AK 2020-06-11T00:00:00.000
36	2020-04-02T00:00:00.000	AK 2020-03-26T00:00:00.000
37	2020-06-11T00:00:00.000	AK 2020-06-04T00:00:00.000
38	2020-10-29T00:00:00.000	AK 2020-10-22T00:00:00.000
39	2020-10-22T00:00:00.000	AK 2020-10-15T00:00:00.000
40	2020-06-04T00:00:00.000	AK 2020-05-28T00:00:00.000
41	2020-11-05T00:00:00.000	AK 2020-10-29T00:00:00.000
42	2020-11-12T00:00:00.000	AK 2020-11-05T00:00:00.000
43	2020-11-19T00:00:00.000	AK 2020-11-12T00:00:00.000
44	2020-11-26T00:00:00.000	AK 2020-11-19T00:00:00.000
45	2020-12-03T00:00:00.000	AK 2020-11-26T00:00:00.000
46	2020-12-10T00:00:00.000	AK 2020-12-03T00:00:00.000
47	2020-12-17T00:00:00.000	AK 2020-12-10T00:00:00.000
48	2020-12-24T00:00:00.000	AK 2020-12-17T00:00:00.000
49	2020-12-31T00:00:00.000	AK 2020-12-24T00:00:00.000
50	2021-01-07T00:00:00.000	AK 2020-12-31T00:00:00.000
51	2021-01-14T00:00:00.000	AK 2021-01-07T00:00:00.000
52	2021-01-21T00:00:00.000	AK 2021-01-14T00:00:00.000
53	2021-01-28T00:00:00.000	AK 2021-01-21T00:00:00.000
54	2021-02-04T00:00:00.000	AK 2021-01-28T00:00:00.000
55	2021-02-11T00:00:00.000	AK 2021-02-04T00:00:00.000
56	2021-02-18T00:00:00.000	AK 2021-02-11T00:00:00.000
57	2021-02-25T00:00:00.000	AK 2021-02-18T00:00:00.000
58	2021-03-04T00:00:00.000	AK 2021-02-25T00:00:00.000
59	2021-03-11T00:00:00.000	AK 2021-03-04T00:00:00.000
60	2021-03-18T00:00:00.000	AK 2021-03-11T00:00:00.000
61	2021-03-25T00:00:00.000	AK 2021-03-18T00:00:00.000

62	2021-04-01T00:00:00.000	AK 2021-03-25T00:00:00.000
63	2020-03-26T00:00:00.000	AK 2020-03-19T00:00:00.000
64	2020-02-20T00:00:00.000	AK 2020-02-13T00:00:00.000
65	2020-10-15T00:00:00.000	AK 2020-10-08T00:00:00.000
66	2020-10-08T00:00:00.000	AK 2020-10-01T00:00:00.000
67	2020-05-28T00:00:00.000	AK 2020-05-21T00:00:00.000
68	2020-10-01T00:00:00.000	AK 2020-09-24T00:00:00.000
69	2021-06-10T00:00:00.000	AK 2021-06-03T00:00:00.000
70	2021-06-03T00:00:00.000	AK 2021-05-27T00:00:00.000
71	2020-09-24T00:00:00.000	AK 2020-09-17T00:00:00.000
72	2020-05-21T00:00:00.000	AK 2020-05-14T00:00:00.000
73	2021-06-17T00:00:00.000	AK 2021-06-10T00:00:00.000
74	2021-06-24T00:00:00.000	AK 2021-06-17T00:00:00.000
75	2021-07-01T00:00:00.000	AK 2021-06-24T00:00:00.000
76	2021-07-08T00:00:00.000	AK 2021-07-01T00:00:00.000
77	2021-07-15T00:00:00.000	AK 2021-07-08T00:00:00.000
78	2021-07-22T00:00:00.000	AK 2021-07-15T00:00:00.000
79	2021-07-29T00:00:00.000	AK 2021-07-22T00:00:00.000
80	2021-08-05T00:00:00.000	AK 2021-07-29T00:00:00.000
81	2021-08-12T00:00:00.000	AK 2021-08-05T00:00:00.000
82	2021-08-19T00:00:00.000	AK 2021-08-12T00:00:00.000
83	2021-08-26T00:00:00.000	AK 2021-08-19T00:00:00.000
84	2021-09-02T00:00:00.000	AK 2021-08-26T00:00:00.000
85	2021-09-09T00:00:00.000	AK 2021-09-02T00:00:00.000
86	2021-09-16T00:00:00.000	AK 2021-09-09T00:00:00.000
87	2021-09-23T00:00:00.000	AK 2021-09-16T00:00:00.000
88	2021-09-30T00:00:00.000	AK 2021-09-23T00:00:00.000
89	2021-10-07T00:00:00.000	AK 2021-09-30T00:00:00.000
90	2021-10-14T00:00:00.000	AK 2021-10-07T00:00:00.000
91	2021-10-21T00:00:00.000	AK 2021-10-14T00:00:00.000
92	2021-10-28T00:00:00.000	AK 2021-10-21T00:00:00.000
93	2021-11-04T00:00:00.000	AK 2021-10-28T00:00:00.000
94	2021-11-11T00:00:00.000	AK 2021-11-04T00:00:00.000
95	2021-11-18T00:00:00.000	AK 2021-11-11T00:00:00.000
96	2021-11-25T00:00:00.000	AK 2021-11-18T00:00:00.000
97	2021-12-02T00:00:00.000	AK 2021-11-25T00:00:00.000
98	2021-12-09T00:00:00.000	AK 2021-12-02T00:00:00.000
99	2021-12-16T00:00:00.000	AK 2021-12-09T00:00:00.000
100	2021-12-23T00:00:00.000	AK 2021-12-16T00:00:00.000
101	2021-12-30T00:00:00.000	AK 2021-12-23T00:00:00.000
102	2022-01-06T00:00:00.000	AK 2021-12-30T00:00:00.000
103	2022-01-13T00:00:00.000	AK 2022-01-06T00:00:00.000
104	2022-01-20T00:00:00.000	AK 2022-01-13T00:00:00.000



105	2022-01-27T00:00:00.000	AK 2022-01-20T00:00:00.000
106	2022-02-03T00:00:00.000	AK 2022-01-27T00:00:00.000
107	2022-02-10T00:00:00.000	AK 2022-02-03T00:00:00.000
108	2022-02-17T00:00:00.000	AK 2022-02-10T00:00:00.000
109	2022-02-24T00:00:00.000	AK 2022-02-17T00:00:00.000
110	2022-03-03T00:00:00.000	AK 2022-02-24T00:00:00.000
111	2022-03-10T00:00:00.000	AK 2022-03-03T00:00:00.000
112	2022-03-17T00:00:00.000	AK 2022-03-10T00:00:00.000
113	2022-03-24T00:00:00.000	AK 2022-03-17T00:00:00.000
114	2022-03-31T00:00:00.000	AK 2022-03-24T00:00:00.000
115	2022-04-07T00:00:00.000	AK 2022-03-31T00:00:00.000
116	2022-04-14T00:00:00.000	AK 2022-04-07T00:00:00.000
117	2022-04-21T00:00:00.000	AK 2022-04-14T00:00:00.000
118	2022-04-28T00:00:00.000	AK 2022-04-21T00:00:00.000
119	2022-05-05T00:00:00.000	AK 2022-04-28T00:00:00.000
120	2022-05-12T00:00:00.000	AK 2022-05-05T00:00:00.000
121	2022-05-19T00:00:00.000	AK 2022-05-12T00:00:00.000
122	2022-05-26T00:00:00.000	AK 2022-05-19T00:00:00.000
123	2022-06-02T00:00:00.000	AK 2022-05-26T00:00:00.000
124	2022-06-09T00:00:00.000	AK 2022-06-02T00:00:00.000
125	2022-06-16T00:00:00.000	AK 2022-06-09T00:00:00.000
126	2022-06-23T00:00:00.000	AK 2022-06-16T00:00:00.000
127	2020-03-19T00:00:00.000	AK 2020-03-12T00:00:00.000
128	2021-05-27T00:00:00.000	AK 2021-05-20T00:00:00.000
129	2021-05-20T00:00:00.000	AK 2021-05-13T00:00:00.000
130	2020-09-17T00:00:00.000	AK 2020-09-10T00:00:00.000
131	2021-05-13T00:00:00.000	AK 2021-05-06T00:00:00.000
132	2022-09-01T00:00:00.000	AK 2022-08-25T00:00:00.000
133	2022-08-25T00:00:00.000	AK 2022-08-18T00:00:00.000
134	2021-05-06T00:00:00.000	AK 2021-04-29T00:00:00.000
135	2020-09-10T00:00:00.000	AK 2020-09-03T00:00:00.000
136	2020-05-14T00:00:00.000	AK 2020-05-07T00:00:00.000
137	2022-09-08T00:00:00.000	AK 2022-09-01T00:00:00.000
138	2022-09-15T00:00:00.000	AK 2022-09-08T00:00:00.000
139	2022-09-22T00:00:00.000	AK 2022-09-15T00:00:00.000
140	2022-09-29T00:00:00.000	AK 2022-09-22T00:00:00.000
141	2022-10-06T00:00:00.000	AK 2022-09-29T00:00:00.000
142	2022-10-13T00:00:00.000	AK 2022-10-06T00:00:00.000
143	2022-10-20T00:00:00.000	AK 2022-10-13T00:00:00.000
144	2022-10-27T00:00:00.000	AK 2022-10-20T00:00:00.000
145	2022-11-03T00:00:00.000	AK 2022-10-27T00:00:00.000
146	2022-11-10T00:00:00.000	AK 2022-11-03T00:00:00.000
147	2022-11-17T00:00:00.000	AK 2022-11-10T00:00:00.000

148	2022-11-24T00:00:00.000	AK 2022-11-17T00:00:00.000
149	2022-12-01T00:00:00.000	AK 2022-11-24T00:00:00.000
150	2022-12-08T00:00:00.000	AK 2022-12-01T00:00:00.000
151	2022-12-15T00:00:00.000	AK 2022-12-08T00:00:00.000
152	2022-12-22T00:00:00.000	AK 2022-12-15T00:00:00.000
153	2022-12-29T00:00:00.000	AK 2022-12-22T00:00:00.000
154	2023-01-05T00:00:00.000	AK 2022-12-29T00:00:00.000
155	2023-01-12T00:00:00.000	AK 2023-01-05T00:00:00.000
156	2023-01-19T00:00:00.000	AK 2023-01-12T00:00:00.000
157	2023-01-26T00:00:00.000	AK 2023-01-19T00:00:00.000
158	2023-02-02T00:00:00.000	AK 2023-01-26T00:00:00.000
159	2023-02-09T00:00:00.000	AK 2023-02-02T00:00:00.000
160	2023-02-16T00:00:00.000	AK 2023-02-09T00:00:00.000
161	2023-02-23T00:00:00.000	AK 2023-02-16T00:00:00.000
162	2023-03-02T00:00:00.000	AK 2023-02-23T00:00:00.000
163	2023-03-09T00:00:00.000	AK 2023-03-02T00:00:00.000
164	2023-03-16T00:00:00.000	AK 2023-03-09T00:00:00.000
165	2023-03-23T00:00:00.000	AK 2023-03-16T00:00:00.000
166	2023-03-30T00:00:00.000	AK 2023-03-23T00:00:00.000
167	2023-04-06T00:00:00.000	AK 2023-03-30T00:00:00.000
168	2023-04-13T00:00:00.000	AK 2023-04-06T00:00:00.000
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170	2023-04-27T00:00:00.000	AK 2023-04-20T00:00:00.000
171	2023-05-04T00:00:00.000	AK 2023-04-27T00:00:00.000
172	2023-05-11T00:00:00.000	AK 2023-05-04T00:00:00.000
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174	2020-01-30T00:00:00.000	AL 2020-01-23T00:00:00.000
175	2020-02-06T00:00:00.000	AL 2020-01-30T00:00:00.000
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182	2020-03-26T00:00:00.000	AL 2020-03-19T00:00:00.000
183	2020-04-02T00:00:00.000	AL 2020-03-26T00:00:00.000
184	2020-04-09T00:00:00.000	AL 2020-04-02T00:00:00.000
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186	2020-04-23T00:00:00.000	AL 2020-04-16T00:00:00.000
187	2020-04-30T00:00:00.000	AL 2020-04-23T00:00:00.000
188	2020-05-07T00:00:00.000	AL 2020-04-30T00:00:00.000
189	2020-05-14T00:00:00.000	AL 2020-05-07T00:00:00.000
190	2020-05-21T00:00:00.000	AL 2020-05-14T00:00:00.000

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212	2020-10-22T00:00:00.000	AL 2020-10-15T00:00:00.000
213	2020-10-29T00:00:00.000	AL 2020-10-22T00:00:00.000
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218	2020-12-03T00:00:00.000	AL 2020-11-26T00:00:00.000
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220	2020-12-17T00:00:00.000	AL 2020-12-10T00:00:00.000
221	2020-12-24T00:00:00.000	AL 2020-12-17T00:00:00.000
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237	2021-04-15T00:00:00.000	AL 2021-04-08T00:00:00.000
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362	2020-05-14T00:00:00.000	AR 2020-05-07T00:00:00.000

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404	2021-03-04T00:00:00.000	AR 2021-02-25T00:00:00.000
405	2021-03-11T00:00:00.000	AR 2021-03-04T00:00:00.000

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415	2021-05-20T00:00:00.000	AR 2021-05-13T00:00:00.000
416	2021-05-27T00:00:00.000	AR 2021-05-20T00:00:00.000
417	2021-06-03T00:00:00.000	AR 2021-05-27T00:00:00.000
418	2021-06-10T00:00:00.000	AR 2021-06-03T00:00:00.000
419	2021-06-17T00:00:00.000	AR 2021-06-10T00:00:00.000
420	2021-06-24T00:00:00.000	AR 2021-06-17T00:00:00.000
421	2021-07-01T00:00:00.000	AR 2021-06-24T00:00:00.000
422	2021-07-08T00:00:00.000	AR 2021-07-01T00:00:00.000
423	2021-07-15T00:00:00.000	AR 2021-07-08T00:00:00.000
424	2021-07-22T00:00:00.000	AR 2021-07-15T00:00:00.000
425	2021-07-29T00:00:00.000	AR 2021-07-22T00:00:00.000
426	2021-08-05T00:00:00.000	AR 2021-07-29T00:00:00.000
427	2021-08-12T00:00:00.000	AR 2021-08-05T00:00:00.000
428	2021-08-19T00:00:00.000	AR 2021-08-12T00:00:00.000
429	2021-08-26T00:00:00.000	AR 2021-08-19T00:00:00.000
430	2021-09-02T00:00:00.000	AR 2021-08-26T00:00:00.000
431	2021-09-09T00:00:00.000	AR 2021-09-02T00:00:00.000
432	2021-09-16T00:00:00.000	AR 2021-09-09T00:00:00.000
433	2021-09-23T00:00:00.000	AR 2021-09-16T00:00:00.000
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435	2021-10-07T00:00:00.000	AR 2021-09-30T00:00:00.000
436	2021-10-14T00:00:00.000	AR 2021-10-07T00:00:00.000
437	2021-10-21T00:00:00.000	AR 2021-10-14T00:00:00.000
438	2021-10-28T00:00:00.000	AR 2021-10-21T00:00:00.000
439	2021-11-04T00:00:00.000	AR 2021-10-28T00:00:00.000
440	2021-11-11T00:00:00.000	AR 2021-11-04T00:00:00.000
441	2021-11-18T00:00:00.000	AR 2021-11-11T00:00:00.000
442	2021-11-25T00:00:00.000	AR 2021-11-18T00:00:00.000
443	2021-12-02T00:00:00.000	AR 2021-11-25T00:00:00.000
444	2021-12-09T00:00:00.000	AR 2021-12-02T00:00:00.000
445	2021-12-16T00:00:00.000	AR 2021-12-09T00:00:00.000
446	2021-12-23T00:00:00.000	AR 2021-12-16T00:00:00.000
447	2021-12-30T00:00:00.000	AR 2021-12-23T00:00:00.000
448	2022-01-06T00:00:00.000	AR 2021-12-30T00:00:00.000



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452	2022-02-03T00:00:00.000	AR 2022-01-27T00:00:00.000
453	2022-02-10T00:00:00.000	AR 2022-02-03T00:00:00.000
454	2022-02-17T00:00:00.000	AR 2022-02-10T00:00:00.000
455	2022-02-24T00:00:00.000	AR 2022-02-17T00:00:00.000
456	2022-03-03T00:00:00.000	AR 2022-02-24T00:00:00.000
457	2022-03-10T00:00:00.000	AR 2022-03-03T00:00:00.000
458	2022-03-17T00:00:00.000	AR 2022-03-10T00:00:00.000
459	2022-03-24T00:00:00.000	AR 2022-03-17T00:00:00.000
460	2022-03-31T00:00:00.000	AR 2022-03-24T00:00:00.000
461	2022-04-07T00:00:00.000	AR 2022-03-31T00:00:00.000
462	2022-04-14T00:00:00.000	AR 2022-04-07T00:00:00.000
463	2022-04-21T00:00:00.000	AR 2022-04-14T00:00:00.000
464	2022-04-28T00:00:00.000	AR 2022-04-21T00:00:00.000
465	2022-05-05T00:00:00.000	AR 2022-04-28T00:00:00.000
466	2022-05-12T00:00:00.000	AR 2022-05-05T00:00:00.000
467	2022-05-19T00:00:00.000	AR 2022-05-12T00:00:00.000
468	2022-05-26T00:00:00.000	AR 2022-05-19T00:00:00.000
469	2022-06-02T00:00:00.000	AR 2022-05-26T00:00:00.000
470	2022-06-09T00:00:00.000	AR 2022-06-02T00:00:00.000
471	2022-06-16T00:00:00.000	AR 2022-06-09T00:00:00.000
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474	2022-07-07T00:00:00.000	AR 2022-06-30T00:00:00.000
475	2022-07-14T00:00:00.000	AR 2022-07-07T00:00:00.000
476	2022-07-21T00:00:00.000	AR 2022-07-14T00:00:00.000
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478	2022-08-04T00:00:00.000	AR 2022-07-28T00:00:00.000
479	2022-08-11T00:00:00.000	AR 2022-08-04T00:00:00.000
480	2022-08-18T00:00:00.000	AR 2022-08-11T00:00:00.000
481	2022-08-25T00:00:00.000	AR 2022-08-18T00:00:00.000
482	2022-09-01T00:00:00.000	AR 2022-08-25T00:00:00.000
483	2022-09-08T00:00:00.000	AR 2022-09-01T00:00:00.000
484	2022-09-15T00:00:00.000	AR 2022-09-08T00:00:00.000
485	2022-09-22T00:00:00.000	AR 2022-09-15T00:00:00.000
486	2022-09-29T00:00:00.000	AR 2022-09-22T00:00:00.000
487	2022-10-06T00:00:00.000	AR 2022-09-29T00:00:00.000
488	2022-10-13T00:00:00.000	AR 2022-10-06T00:00:00.000
489	2022-10-20T00:00:00.000	AR 2022-10-13T00:00:00.000
490	2022-10-27T00:00:00.000	AR 2022-10-20T00:00:00.000
491	2022-11-03T00:00:00.000	AR 2022-10-27T00:00:00.000

492	2022-11-10T00:00:00.000	AR	2022-11-03T00:00:00.000
493	2022-11-17T00:00:00.000	AR	2022-11-10T00:00:00.000
494	2022-11-24T00:00:00.000	AR	2022-11-17T00:00:00.000
495	2022-12-01T00:00:00.000	AR	2022-11-24T00:00:00.000
496	2022-12-08T00:00:00.000	AR	2022-12-01T00:00:00.000
497	2022-12-15T00:00:00.000	AR	2022-12-08T00:00:00.000
498	2022-12-22T00:00:00.000	AR	2022-12-15T00:00:00.000
499	2022-12-29T00:00:00.000	AR	2022-12-22T00:00:00.000
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501	2023-01-12T00:00:00.000	AR	2023-01-05T00:00:00.000
502	2023-01-19T00:00:00.000	AR	2023-01-12T00:00:00.000
503	2023-01-26T00:00:00.000	AR	2023-01-19T00:00:00.000
504	2023-02-02T00:00:00.000	AR	2023-01-26T00:00:00.000
505	2023-02-09T00:00:00.000	AR	2023-02-02T00:00:00.000
506	2023-02-16T00:00:00.000	AR	2023-02-09T00:00:00.000
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509	2023-03-09T00:00:00.000	AR	2023-03-02T00:00:00.000
510	2023-03-16T00:00:00.000	AR	2023-03-09T00:00:00.000
511	2021-09-30T00:00:00.000	AL	2021-09-23T00:00:00.000
512	2022-07-21T00:00:00.000	AK	2022-07-14T00:00:00.000
513	2021-09-23T00:00:00.000	AL	2021-09-16T00:00:00.000
514	2020-01-30T00:00:00.000	AS	2020-01-23T00:00:00.000
515	2020-01-23T00:00:00.000	AS	2020-01-16T00:00:00.000
516	2021-09-16T00:00:00.000	AL	2021-09-09T00:00:00.000
517	2022-07-14T00:00:00.000	AK	2022-07-07T00:00:00.000
518	2021-04-15T00:00:00.000	AK	2021-04-08T00:00:00.000
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520	2023-05-04T00:00:00.000	AR	2023-04-27T00:00:00.000
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523	2020-02-20T00:00:00.000	AS	2020-02-13T00:00:00.000
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525	2020-03-05T00:00:00.000	AS	2020-02-27T00:00:00.000
526	2020-03-12T00:00:00.000	AS	2020-03-05T00:00:00.000
527	2020-03-19T00:00:00.000	AS	2020-03-12T00:00:00.000
528	2020-03-26T00:00:00.000	AS	2020-03-19T00:00:00.000
529	2020-04-02T00:00:00.000	AS	2020-03-26T00:00:00.000
530	2020-04-09T00:00:00.000	AS	2020-04-02T00:00:00.000
531	2020-04-16T00:00:00.000	AS	2020-04-09T00:00:00.000
532	2020-04-23T00:00:00.000	AS	2020-04-16T00:00:00.000
533	2020-04-30T00:00:00.000	AS	2020-04-23T00:00:00.000
534	2020-05-07T00:00:00.000	AS	2020-04-30T00:00:00.000

535	2020-05-14T00:00:00.000	AS	2020-05-07T00:00:00.000
536	2020-05-21T00:00:00.000	AS	2020-05-14T00:00:00.000
537	2020-05-28T00:00:00.000	AS	2020-05-21T00:00:00.000
538	2020-06-04T00:00:00.000	AS	2020-05-28T00:00:00.000
539	2020-06-11T00:00:00.000	AS	2020-06-04T00:00:00.000
540	2020-06-18T00:00:00.000	AS	2020-06-11T00:00:00.000
541	2020-06-25T00:00:00.000	AS	2020-06-18T00:00:00.000
542	2020-07-02T00:00:00.000	AS	2020-06-25T00:00:00.000
543	2020-07-09T00:00:00.000	AS	2020-07-02T00:00:00.000
544	2020-07-16T00:00:00.000	AS	2020-07-09T00:00:00.000
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548	2020-08-13T00:00:00.000	AS	2020-08-06T00:00:00.000
549	2020-08-20T00:00:00.000	AS	2020-08-13T00:00:00.000
550	2020-08-27T00:00:00.000	AS	2020-08-20T00:00:00.000
551	2020-09-03T00:00:00.000	AS	2020-08-27T00:00:00.000
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554	2020-09-24T00:00:00.000	AS	2020-09-17T00:00:00.000
555	2020-10-01T00:00:00.000	AS	2020-09-24T00:00:00.000
556	2020-10-08T00:00:00.000	AS	2020-10-01T00:00:00.000
557	2020-10-15T00:00:00.000	AS	2020-10-08T00:00:00.000
558	2020-10-22T00:00:00.000	AS	2020-10-15T00:00:00.000
559	2020-10-29T00:00:00.000	AS	2020-10-22T00:00:00.000
560	2020-11-05T00:00:00.000	AS	2020-10-29T00:00:00.000
561	2020-11-12T00:00:00.000	AS	2020-11-05T00:00:00.000
562	2020-11-19T00:00:00.000	AS	2020-11-12T00:00:00.000
563	2020-11-26T00:00:00.000	AS	2020-11-19T00:00:00.000
564	2020-12-03T00:00:00.000	AS	2020-11-26T00:00:00.000
565	2020-12-10T00:00:00.000	AS	2020-12-03T00:00:00.000
566	2020-12-17T00:00:00.000	AS	2020-12-10T00:00:00.000
567	2020-12-24T00:00:00.000	AS	2020-12-17T00:00:00.000
568	2020-12-31T00:00:00.000	AS	2020-12-24T00:00:00.000
569	2021-01-07T00:00:00.000	AS	2020-12-31T00:00:00.000
570	2021-01-14T00:00:00.000	AS	2021-01-07T00:00:00.000
571	2021-01-21T00:00:00.000	AS	2021-01-14T00:00:00.000
572	2021-01-28T00:00:00.000	AS	2021-01-21T00:00:00.000
573	2021-02-04T00:00:00.000	AS	2021-01-28T00:00:00.000
574	2021-02-11T00:00:00.000	AS	2021-02-04T00:00:00.000
575	2021-02-18T00:00:00.000	AS	2021-02-11T00:00:00.000
576	2021-02-25T00:00:00.000	AS	2021-02-18T00:00:00.000
577	2021-03-04T00:00:00.000	AS	2021-02-25T00:00:00.000

578	2021-03-11T00:00:00.000	AS	2021-03-04T00:00:00.000
579	2021-03-18T00:00:00.000	AS	2021-03-11T00:00:00.000
580	2021-03-25T00:00:00.000	AS	2021-03-18T00:00:00.000
581	2021-04-01T00:00:00.000	AS	2021-03-25T00:00:00.000
582	2021-04-08T00:00:00.000	AS	2021-04-01T00:00:00.000
583	2021-04-15T00:00:00.000	AS	2021-04-08T00:00:00.000
584	2021-04-22T00:00:00.000	AS	2021-04-15T00:00:00.000
585	2021-04-29T00:00:00.000	AS	2021-04-22T00:00:00.000
586	2021-05-06T00:00:00.000	AS	2021-04-29T00:00:00.000
587	2021-05-13T00:00:00.000	AS	2021-05-06T00:00:00.000
588	2021-05-20T00:00:00.000	AS	2021-05-13T00:00:00.000
589	2021-05-27T00:00:00.000	AS	2021-05-20T00:00:00.000
590	2021-06-03T00:00:00.000	AS	2021-05-27T00:00:00.000
591	2021-06-10T00:00:00.000	AS	2021-06-03T00:00:00.000
592	2021-06-17T00:00:00.000	AS	2021-06-10T00:00:00.000
593	2021-06-24T00:00:00.000	AS	2021-06-17T00:00:00.000
594	2021-07-01T00:00:00.000	AS	2021-06-24T00:00:00.000
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596	2021-07-15T00:00:00.000	AS	2021-07-08T00:00:00.000
597	2021-07-22T00:00:00.000	AS	2021-07-15T00:00:00.000
598	2021-07-29T00:00:00.000	AS	2021-07-22T00:00:00.000
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601	2021-08-19T00:00:00.000	AS	2021-08-12T00:00:00.000
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603	2021-09-02T00:00:00.000	AS	2021-08-26T00:00:00.000
604	2021-09-09T00:00:00.000	AS	2021-09-02T00:00:00.000
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607	2021-09-30T00:00:00.000	AS	2021-09-23T00:00:00.000
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609	2021-10-14T00:00:00.000	AS	2021-10-07T00:00:00.000
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613	2021-11-11T00:00:00.000	AS	2021-11-04T00:00:00.000
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615	2021-11-25T00:00:00.000	AS	2021-11-18T00:00:00.000
616	2021-12-02T00:00:00.000	AS	2021-11-25T00:00:00.000
617	2021-12-09T00:00:00.000	AS	2021-12-02T00:00:00.000
618	2021-12-16T00:00:00.000	AS	2021-12-09T00:00:00.000
619	2021-12-23T00:00:00.000	AS	2021-12-16T00:00:00.000
620	2021-12-30T00:00:00.000	AS	2021-12-23T00:00:00.000

621	2022-01-06T00:00:00.000	AS 2021-12-30T00:00:00.000
622	2022-01-13T00:00:00.000	AS 2022-01-06T00:00:00.000
623	2022-01-20T00:00:00.000	AS 2022-01-13T00:00:00.000
624	2022-01-27T00:00:00.000	AS 2022-01-20T00:00:00.000
625	2022-02-03T00:00:00.000	AS 2022-01-27T00:00:00.000
626	2022-02-10T00:00:00.000	AS 2022-02-03T00:00:00.000
627	2022-02-17T00:00:00.000	AS 2022-02-10T00:00:00.000
628	2022-02-24T00:00:00.000	AS 2022-02-17T00:00:00.000
629	2022-03-03T00:00:00.000	AS 2022-02-24T00:00:00.000
630	2022-03-10T00:00:00.000	AS 2022-03-03T00:00:00.000
631	2022-03-17T00:00:00.000	AS 2022-03-10T00:00:00.000
632	2022-03-24T00:00:00.000	AS 2022-03-17T00:00:00.000
633	2022-03-31T00:00:00.000	AS 2022-03-24T00:00:00.000
634	2022-04-07T00:00:00.000	AS 2022-03-31T00:00:00.000
635	2022-04-14T00:00:00.000	AS 2022-04-07T00:00:00.000
636	2022-04-21T00:00:00.000	AS 2022-04-14T00:00:00.000
637	2022-04-28T00:00:00.000	AS 2022-04-21T00:00:00.000
638	2022-05-05T00:00:00.000	AS 2022-04-28T00:00:00.000
639	2022-05-12T00:00:00.000	AS 2022-05-05T00:00:00.000
640	2022-05-19T00:00:00.000	AS 2022-05-12T00:00:00.000
641	2022-05-26T00:00:00.000	AS 2022-05-19T00:00:00.000
642	2022-06-02T00:00:00.000	AS 2022-05-26T00:00:00.000
643	2022-06-09T00:00:00.000	AS 2022-06-02T00:00:00.000
644	2022-06-16T00:00:00.000	AS 2022-06-09T00:00:00.000
645	2022-06-23T00:00:00.000	AS 2022-06-16T00:00:00.000
646	2022-06-30T00:00:00.000	AS 2022-06-23T00:00:00.000
647	2022-07-07T00:00:00.000	AS 2022-06-30T00:00:00.000
648	2022-07-14T00:00:00.000	AS 2022-07-07T00:00:00.000
649	2022-07-21T00:00:00.000	AS 2022-07-14T00:00:00.000
650	2022-07-28T00:00:00.000	AS 2022-07-21T00:00:00.000
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652	2022-08-11T00:00:00.000	AS 2022-08-04T00:00:00.000
653	2022-08-18T00:00:00.000	AS 2022-08-11T00:00:00.000
654	2022-08-25T00:00:00.000	AS 2022-08-18T00:00:00.000
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656	2022-09-08T00:00:00.000	AS 2022-09-01T00:00:00.000
657	2022-09-15T00:00:00.000	AS 2022-09-08T00:00:00.000
658	2022-09-22T00:00:00.000	AS 2022-09-15T00:00:00.000
659	2022-09-29T00:00:00.000	AS 2022-09-22T00:00:00.000
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662	2022-10-20T00:00:00.000	AS 2022-10-13T00:00:00.000
663	2022-10-27T00:00:00.000	AS 2022-10-20T00:00:00.000

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667	2022-11-24T00:00:00.000	AS	2022-11-17T00:00:00.000
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705	2020-04-23T00:00:00.000	AZ	2020-04-16T00:00:00.000
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739	2020-12-17T00:00:00.000	AZ 2020-12-10T00:00:00.000
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748	2021-02-18T00:00:00.000	AZ 2021-02-11T00:00:00.000
749	2021-02-25T00:00:00.000	AZ 2021-02-18T00:00:00.000

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776	2021-09-02T00:00:00.000	AZ	2021-08-26T00:00:00.000
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778	2021-09-16T00:00:00.000	AZ	2021-09-09T00:00:00.000
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780	2021-09-30T00:00:00.000	AZ	2021-09-23T00:00:00.000
781	2021-10-07T00:00:00.000	AZ	2021-09-30T00:00:00.000
782	2021-10-14T00:00:00.000	AZ	2021-10-07T00:00:00.000
783	2021-10-21T00:00:00.000	AZ	2021-10-14T00:00:00.000
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788	2021-11-25T00:00:00.000	AZ	2021-11-18T00:00:00.000
789	2021-12-02T00:00:00.000	AZ	2021-11-25T00:00:00.000
790	2021-12-09T00:00:00.000	AZ	2021-12-02T00:00:00.000
791	2021-12-16T00:00:00.000	AZ	2021-12-09T00:00:00.000
792	2021-12-23T00:00:00.000	AZ	2021-12-16T00:00:00.000



793	2021-12-30T00:00:00.000	AZ 2021-12-23T00:00:00.000
794	2022-01-06T00:00:00.000	AZ 2021-12-30T00:00:00.000
795	2022-01-13T00:00:00.000	AZ 2022-01-06T00:00:00.000
796	2022-01-20T00:00:00.000	AZ 2022-01-13T00:00:00.000
797	2022-01-27T00:00:00.000	AZ 2022-01-20T00:00:00.000
798	2022-02-03T00:00:00.000	AZ 2022-01-27T00:00:00.000
799	2022-02-10T00:00:00.000	AZ 2022-02-03T00:00:00.000
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802	2022-03-03T00:00:00.000	AZ 2022-02-24T00:00:00.000
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804	2022-03-17T00:00:00.000	AZ 2022-03-10T00:00:00.000
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806	2022-03-31T00:00:00.000	AZ 2022-03-24T00:00:00.000
807	2022-04-07T00:00:00.000	AZ 2022-03-31T00:00:00.000
808	2022-04-14T00:00:00.000	AZ 2022-04-07T00:00:00.000
809	2022-04-21T00:00:00.000	AZ 2022-04-14T00:00:00.000
810	2022-04-28T00:00:00.000	AZ 2022-04-21T00:00:00.000
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813	2022-05-19T00:00:00.000	AZ 2022-05-12T00:00:00.000
814	2022-05-26T00:00:00.000	AZ 2022-05-19T00:00:00.000
815	2022-06-02T00:00:00.000	AZ 2022-05-26T00:00:00.000
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817	2022-06-16T00:00:00.000	AZ 2022-06-09T00:00:00.000
818	2022-06-23T00:00:00.000	AZ 2022-06-16T00:00:00.000
819	2022-06-30T00:00:00.000	AZ 2022-06-23T00:00:00.000
820	2022-07-07T00:00:00.000	AZ 2022-06-30T00:00:00.000
821	2022-07-14T00:00:00.000	AZ 2022-07-07T00:00:00.000
822	2022-07-21T00:00:00.000	AZ 2022-07-14T00:00:00.000
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833	2022-10-06T00:00:00.000	AZ 2022-09-29T00:00:00.000
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835	2022-10-20T00:00:00.000	AZ 2022-10-13T00:00:00.000

836	2022-10-27T00:00:00.000	AZ	2022-10-20T00:00:00.000
837	2022-11-03T00:00:00.000	AZ	2022-10-27T00:00:00.000
838	2022-11-10T00:00:00.000	AZ	2022-11-03T00:00:00.000
839	2022-11-17T00:00:00.000	AZ	2022-11-10T00:00:00.000
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854	2023-03-02T00:00:00.000	AZ	2023-02-23T00:00:00.000
855	2023-03-09T00:00:00.000	AZ	2023-03-02T00:00:00.000
856	2023-03-16T00:00:00.000	AZ	2023-03-09T00:00:00.000
857	2023-03-23T00:00:00.000	AZ	2023-03-16T00:00:00.000
858	2023-03-30T00:00:00.000	AZ	2023-03-23T00:00:00.000
859	2023-04-06T00:00:00.000	AZ	2023-03-30T00:00:00.000
860	2023-04-13T00:00:00.000	AZ	2023-04-06T00:00:00.000
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863	2023-05-04T00:00:00.000	AZ	2023-04-27T00:00:00.000
864	2023-05-11T00:00:00.000	AZ	2023-05-04T00:00:00.000
865	2020-01-23T00:00:00.000	CA	2020-01-16T00:00:00.000
866	2020-01-30T00:00:00.000	CA	2020-01-23T00:00:00.000
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873	2020-03-19T00:00:00.000	CA	2020-03-12T00:00:00.000
874	2020-03-26T00:00:00.000	CA	2020-03-19T00:00:00.000
875	2020-04-02T00:00:00.000	CA	2020-03-26T00:00:00.000
876	2020-04-09T00:00:00.000	CA	2020-04-02T00:00:00.000
877	2020-04-16T00:00:00.000	CA	2020-04-09T00:00:00.000
878	2020-04-23T00:00:00.000	CA	2020-04-16T00:00:00.000

879	2020-04-30T00:00:00.000	CA 2020-04-23T00:00:00.000
880	2020-05-07T00:00:00.000	CA 2020-04-30T00:00:00.000
881	2020-05-14T00:00:00.000	CA 2020-05-07T00:00:00.000
882	2020-05-21T00:00:00.000	CA 2020-05-14T00:00:00.000
883	2020-05-28T00:00:00.000	CA 2020-05-21T00:00:00.000
884	2020-06-04T00:00:00.000	CA 2020-05-28T00:00:00.000
885	2020-06-11T00:00:00.000	CA 2020-06-04T00:00:00.000
886	2020-06-18T00:00:00.000	CA 2020-06-11T00:00:00.000
887	2020-06-25T00:00:00.000	CA 2020-06-18T00:00:00.000
888	2020-07-02T00:00:00.000	CA 2020-06-25T00:00:00.000
889	2020-07-09T00:00:00.000	CA 2020-07-02T00:00:00.000
890	2020-07-16T00:00:00.000	CA 2020-07-09T00:00:00.000
891	2020-07-23T00:00:00.000	CA 2020-07-16T00:00:00.000
892	2020-07-30T00:00:00.000	CA 2020-07-23T00:00:00.000
893	2020-08-06T00:00:00.000	CA 2020-07-30T00:00:00.000
894	2020-08-13T00:00:00.000	CA 2020-08-06T00:00:00.000
895	2020-08-20T00:00:00.000	CA 2020-08-13T00:00:00.000
896	2020-08-27T00:00:00.000	CA 2020-08-20T00:00:00.000
897	2020-09-03T00:00:00.000	CA 2020-08-27T00:00:00.000
898	2020-09-10T00:00:00.000	CA 2020-09-03T00:00:00.000
899	2020-09-17T00:00:00.000	CA 2020-09-10T00:00:00.000
900	2020-09-24T00:00:00.000	CA 2020-09-17T00:00:00.000
901	2020-10-01T00:00:00.000	CA 2020-09-24T00:00:00.000
902	2020-10-08T00:00:00.000	CA 2020-10-01T00:00:00.000
903	2020-10-15T00:00:00.000	CA 2020-10-08T00:00:00.000
904	2020-10-22T00:00:00.000	CA 2020-10-15T00:00:00.000
905	2020-10-29T00:00:00.000	CA 2020-10-22T00:00:00.000
906	2020-11-05T00:00:00.000	CA 2020-10-29T00:00:00.000
907	2020-11-12T00:00:00.000	CA 2020-11-05T00:00:00.000
908	2020-11-19T00:00:00.000	CA 2020-11-12T00:00:00.000
909	2020-11-26T00:00:00.000	CA 2020-11-19T00:00:00.000
910	2020-12-03T00:00:00.000	CA 2020-11-26T00:00:00.000
911	2020-12-10T00:00:00.000	CA 2020-12-03T00:00:00.000
912	2020-12-17T00:00:00.000	CA 2020-12-10T00:00:00.000
913	2020-12-24T00:00:00.000	CA 2020-12-17T00:00:00.000
914	2020-12-31T00:00:00.000	CA 2020-12-24T00:00:00.000
915	2021-01-07T00:00:00.000	CA 2020-12-31T00:00:00.000
916	2021-01-14T00:00:00.000	CA 2021-01-07T00:00:00.000
917	2021-01-21T00:00:00.000	CA 2021-01-14T00:00:00.000
918	2021-01-28T00:00:00.000	CA 2021-01-21T00:00:00.000
919	2021-02-04T00:00:00.000	CA 2021-01-28T00:00:00.000
920	2021-02-11T00:00:00.000	CA 2021-02-04T00:00:00.000
921	2021-02-18T00:00:00.000	CA 2021-02-11T00:00:00.000

922	2021-02-25T00:00:00.000	CA 2021-02-18T00:00:00.000
923	2021-03-04T00:00:00.000	CA 2021-02-25T00:00:00.000
924	2021-03-11T00:00:00.000	CA 2021-03-04T00:00:00.000
925	2021-03-18T00:00:00.000	CA 2021-03-11T00:00:00.000
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927	2021-04-01T00:00:00.000	CA 2021-03-25T00:00:00.000
928	2021-04-08T00:00:00.000	CA 2021-04-01T00:00:00.000
929	2021-04-15T00:00:00.000	CA 2021-04-08T00:00:00.000
930	2021-04-22T00:00:00.000	CA 2021-04-15T00:00:00.000
931	2021-04-29T00:00:00.000	CA 2021-04-22T00:00:00.000
932	2021-05-06T00:00:00.000	CA 2021-04-29T00:00:00.000
933	2021-05-13T00:00:00.000	CA 2021-05-06T00:00:00.000
934	2021-05-20T00:00:00.000	CA 2021-05-13T00:00:00.000
935	2021-05-27T00:00:00.000	CA 2021-05-20T00:00:00.000
936	2021-06-03T00:00:00.000	CA 2021-05-27T00:00:00.000
937	2021-06-10T00:00:00.000	CA 2021-06-03T00:00:00.000
938	2021-06-17T00:00:00.000	CA 2021-06-10T00:00:00.000
939	2021-06-24T00:00:00.000	CA 2021-06-17T00:00:00.000
940	2021-07-01T00:00:00.000	CA 2021-06-24T00:00:00.000
941	2021-07-08T00:00:00.000	CA 2021-07-01T00:00:00.000
942	2021-07-15T00:00:00.000	CA 2021-07-08T00:00:00.000
943	2021-07-22T00:00:00.000	CA 2021-07-15T00:00:00.000
944	2021-07-29T00:00:00.000	CA 2021-07-22T00:00:00.000
945	2021-08-05T00:00:00.000	CA 2021-07-29T00:00:00.000
946	2021-08-12T00:00:00.000	CA 2021-08-05T00:00:00.000
947	2021-08-19T00:00:00.000	CA 2021-08-12T00:00:00.000
948	2021-08-26T00:00:00.000	CA 2021-08-19T00:00:00.000
949	2021-09-02T00:00:00.000	CA 2021-08-26T00:00:00.000
950	2021-09-09T00:00:00.000	CA 2021-09-02T00:00:00.000
951	2021-09-16T00:00:00.000	CA 2021-09-09T00:00:00.000
952	2021-09-23T00:00:00.000	CA 2021-09-16T00:00:00.000
953	2021-09-30T00:00:00.000	CA 2021-09-23T00:00:00.000
954	2021-10-07T00:00:00.000	CA 2021-09-30T00:00:00.000
955	2021-10-14T00:00:00.000	CA 2021-10-07T00:00:00.000
956	2021-10-21T00:00:00.000	CA 2021-10-14T00:00:00.000
957	2021-10-28T00:00:00.000	CA 2021-10-21T00:00:00.000
958	2021-11-04T00:00:00.000	CA 2021-10-28T00:00:00.000
959	2021-11-11T00:00:00.000	CA 2021-11-04T00:00:00.000
960	2021-11-18T00:00:00.000	CA 2021-11-11T00:00:00.000
961	2021-11-25T00:00:00.000	CA 2021-11-18T00:00:00.000
962	2021-12-02T00:00:00.000	CA 2021-11-25T00:00:00.000
963	2021-12-09T00:00:00.000	CA 2021-12-02T00:00:00.000
964	2021-12-16T00:00:00.000	CA 2021-12-09T00:00:00.000

965	2021-12-23T00:00:00.000	CA	2021-12-16T00:00:00.000
966	2021-12-30T00:00:00.000	CA	2021-12-23T00:00:00.000
967	2022-01-06T00:00:00.000	CA	2021-12-30T00:00:00.000
968	2022-01-13T00:00:00.000	CA	2022-01-06T00:00:00.000
969	2022-01-20T00:00:00.000	CA	2022-01-13T00:00:00.000
970	2022-01-27T00:00:00.000	CA	2022-01-20T00:00:00.000
971	2022-02-03T00:00:00.000	CA	2022-01-27T00:00:00.000
972	2022-02-10T00:00:00.000	CA	2022-02-03T00:00:00.000
973	2022-02-17T00:00:00.000	CA	2022-02-10T00:00:00.000
974	2022-02-24T00:00:00.000	CA	2022-02-17T00:00:00.000
975	2022-03-03T00:00:00.000	CA	2022-02-24T00:00:00.000
976	2022-03-10T00:00:00.000	CA	2022-03-03T00:00:00.000
977	2022-03-17T00:00:00.000	CA	2022-03-10T00:00:00.000
978	2022-03-24T00:00:00.000	CA	2022-03-17T00:00:00.000
979	2022-03-31T00:00:00.000	CA	2022-03-24T00:00:00.000
980	2022-04-07T00:00:00.000	CA	2022-03-31T00:00:00.000
981	2022-04-14T00:00:00.000	CA	2022-04-07T00:00:00.000
982	2022-04-21T00:00:00.000	CA	2022-04-14T00:00:00.000
983	2022-04-28T00:00:00.000	CA	2022-04-21T00:00:00.000
984	2022-05-05T00:00:00.000	CA	2022-04-28T00:00:00.000
985	2022-05-12T00:00:00.000	CA	2022-05-05T00:00:00.000
986	2022-05-19T00:00:00.000	CA	2022-05-12T00:00:00.000
987	2022-05-26T00:00:00.000	CA	2022-05-19T00:00:00.000
988	2022-06-02T00:00:00.000	CA	2022-05-26T00:00:00.000
989	2022-06-09T00:00:00.000	CA	2022-06-02T00:00:00.000
990	2022-06-16T00:00:00.000	CA	2022-06-09T00:00:00.000
991	2022-06-23T00:00:00.000	CA	2022-06-16T00:00:00.000
992	2022-06-30T00:00:00.000	CA	2022-06-23T00:00:00.000
993	2022-07-07T00:00:00.000	CA	2022-06-30T00:00:00.000
994	2022-07-14T00:00:00.000	CA	2022-07-07T00:00:00.000
995	2022-07-21T00:00:00.000	CA	2022-07-14T00:00:00.000
996	2022-07-28T00:00:00.000	CA	2022-07-21T00:00:00.000
997	2022-08-04T00:00:00.000	CA	2022-07-28T00:00:00.000
998	2022-08-11T00:00:00.000	CA	2022-08-04T00:00:00.000
999	2022-08-18T00:00:00.000	CA	2022-08-11T00:00:00.000
1000	2023-04-27T00:00:00.000	AR	2023-04-20T00:00:00.000

	end_date	tot_cases	new_cases	tot_deaths	new_deaths
1	2023-02-22T00:00:00.000	2434631.0	3716.0	33042.0	39.0
2	2022-12-21T00:00:00.000	1507707.0	4041.0	18345.0	21.0
3	2023-02-22T00:00:00.000	3061141.0	5298.0	42324.0	88.0
4	2023-03-29T00:00:00.000	1588259.0	2203.0	18858.0	23.0
5	2023-02-01T00:00:00.000	1548508.0	5725.0	18572.0	47.0
6	2023-03-22T00:00:00.000	1580709.0	1961.0	18835.0	35.0

7	2023-04-26T00:00:00.000	1597070.0	1884.0	18937.0	25.0
8	2023-03-15T00:00:00.000	891702.0	1233.0	11937.0	15.0
9	2023-05-10T00:00:00.000	7572282.0	6937.0	88248.0	0.0
10	2022-10-26T00:00:00.000	2928439.0	14590.0	42863.0	91.0
11	2022-09-28T00:00:00.000	878474.0	2593.0	9554.0	-3.0
12	2023-02-08T00:00:00.000	2268016.0	8270.0	23452.0	25.0
13	2022-12-07T00:00:00.000	1225630.0	5242.0	15319.0	0.0
14	2023-02-15T00:00:00.000	2275330.0	7314.0	23587.0	73.0
15	2023-04-26T00:00:00.000	4131816.0	4192.0	41970.0	60.0
16	2022-11-09T00:00:00.000	170482.0	441.0	1402.0	0.0
17	2022-11-02T00:00:00.000	170041.0	332.0	1397.0	0.0
18	2022-11-02T00:00:00.000	889485.0	2385.0	9622.0	13.0
19	2020-04-29T00:00:00.000	355.0	18.0	9.0	0.0
20	2020-04-22T00:00:00.000	337.0	37.0	9.0	0.0
21	2020-03-04T00:00:00.000	0.0	0.0	0.0	0.0
22	2020-04-15T00:00:00.000	300.0	65.0	9.0	2.0
23	2020-07-08T00:00:00.000	1273.0	253.0	16.0	3.0
24	2020-07-01T00:00:00.000	1020.0	199.0	13.0	1.0
25	2020-07-15T00:00:00.000	1694.0	421.0	16.0	0.0
26	2020-07-22T00:00:00.000	2202.0	508.0	18.0	2.0
27	2020-07-29T00:00:00.000	2886.0	684.0	21.0	3.0
28	2020-08-05T00:00:00.000	3487.0	601.0	25.0	4.0
29	2020-08-12T00:00:00.000	3978.0	491.0	27.0	2.0
30	2020-08-19T00:00:00.000	4536.0	558.0	29.0	2.0
31	2020-04-08T00:00:00.000	235.0	86.0	7.0	4.0
32	2020-02-26T00:00:00.000	0.0	0.0	0.0	0.0
33	2020-02-05T00:00:00.000	0.0	0.0	0.0	0.0
34	2020-06-24T00:00:00.000	821.0	108.0	12.0	0.0
35	2020-06-17T00:00:00.000	713.0	97.0	12.0	1.0
36	2020-04-01T00:00:00.000	149.0	86.0	3.0	2.0
37	2020-06-10T00:00:00.000	616.0	98.0	11.0	1.0
38	2020-10-28T00:00:00.000	14539.0	2614.0	71.0	3.0
39	2020-10-21T00:00:00.000	11925.0	1538.0	68.0	4.0
40	2020-06-03T00:00:00.000	518.0	91.0	10.0	0.0
41	2020-11-04T00:00:00.000	17266.0	2727.0	86.0	15.0
42	2020-11-11T00:00:00.000	20864.0	3598.0	98.0	12.0
43	2020-11-18T00:00:00.000	25180.0	4316.0	102.0	4.0
44	2020-11-25T00:00:00.000	29292.0	4112.0	118.0	16.0
45	2020-12-02T00:00:00.000	33816.0	4524.0	123.0	5.0
46	2020-12-09T00:00:00.000	38438.0	4622.0	150.0	27.0
47	2020-12-16T00:00:00.000	41855.0	3417.0	180.0	30.0
48	2020-12-23T00:00:00.000	44078.0	2223.0	196.0	16.0
49	2020-12-30T00:00:00.000	45802.0	1724.0	203.0	7.0

50	2021-01-06T00:00:00.000	47828.0	2026.0	220.0	17.0
51	2021-01-13T00:00:00.000	49801.0	1973.0	226.0	6.0
52	2021-01-20T00:00:00.000	51178.0	1377.0	253.0	27.0
53	2021-01-27T00:00:00.000	52359.0	1181.0	261.0	8.0
54	2021-02-03T00:00:00.000	53305.0	946.0	279.0	18.0
55	2021-02-10T00:00:00.000	54294.0	989.0	280.0	1.0
56	2021-02-17T00:00:00.000	55101.0	807.0	288.0	8.0
57	2021-02-24T00:00:00.000	55986.0	885.0	289.0	1.0
58	2021-03-03T00:00:00.000	56862.0	876.0	301.0	12.0
59	2021-03-10T00:00:00.000	57772.0	910.0	303.0	2.0
60	2021-03-17T00:00:00.000	58686.0	914.0	305.0	2.0
61	2021-03-24T00:00:00.000	59630.0	944.0	310.0	5.0
62	2021-03-31T00:00:00.000	60816.0	1186.0	311.0	1.0
63	2020-03-25T00:00:00.000	63.0	52.0	1.0	1.0
64	2020-02-19T00:00:00.000	0.0	0.0	0.0	0.0
65	2020-10-14T00:00:00.000	10387.0	1341.0	64.0	5.0
66	2020-10-07T00:00:00.000	9046.0	1020.0	59.0	4.0
67	2020-05-27T00:00:00.000	427.0	23.0	10.0	0.0
68	2020-09-30T00:00:00.000	8026.0	833.0	55.0	11.0
69	2021-06-09T00:00:00.000	67786.0	185.0	366.0	0.0
70	2021-06-02T00:00:00.000	67601.0	230.0	366.0	0.0
71	2020-09-23T00:00:00.000	7193.0	642.0	44.0	1.0
72	2020-05-20T00:00:00.000	404.0	15.0	10.0	0.0
73	2021-06-16T00:00:00.000	67941.0	155.0	370.0	4.0
74	2021-06-23T00:00:00.000	68178.0	237.0	371.0	1.0
75	2021-06-30T00:00:00.000	68435.0	257.0	374.0	3.0
76	2021-07-07T00:00:00.000	68748.0	313.0	374.0	0.0
77	2021-07-14T00:00:00.000	69320.0	572.0	378.0	4.0
78	2021-07-21T00:00:00.000	70519.0	1199.0	379.0	1.0
79	2021-07-28T00:00:00.000	72065.0	1546.0	383.0	4.0
80	2021-08-04T00:00:00.000	73957.0	1892.0	390.0	7.0
81	2021-08-11T00:00:00.000	76069.0	2112.0	397.0	7.0
82	2021-08-18T00:00:00.000	79070.0	3001.0	409.0	12.0
83	2021-08-25T00:00:00.000	82427.0	3357.0	435.0	26.0
84	2021-09-01T00:00:00.000	86078.0	3651.0	445.0	10.0
85	2021-09-08T00:00:00.000	90342.0	4264.0	453.0	8.0
86	2021-09-15T00:00:00.000	95229.0	4887.0	465.0	12.0
87	2021-09-22T00:00:00.000	101487.0	6258.0	478.0	13.0
88	2021-09-29T00:00:00.000	109923.0	8436.0	563.0	85.0
89	2021-10-06T00:00:00.000	115667.0	5744.0	581.0	18.0
90	2021-10-13T00:00:00.000	121844.0	6177.0	608.0	27.0
91	2021-10-20T00:00:00.000	127374.0	5530.0	687.0	79.0
92	2021-10-27T00:00:00.000	131999.0	4625.0	712.0	25.0

93	2021-11-03T00:00:00.000	136133.0	4134.0	733.0	21.0
94	2021-11-10T00:00:00.000	139524.0	3391.0	827.0	94.0
95	2021-11-17T00:00:00.000	142443.0	2919.0	838.0	11.0
96	2021-11-24T00:00:00.000	144792.0	2349.0	866.0	28.0
97	2021-12-01T00:00:00.000	146508.0	1716.0	877.0	11.0
98	2021-12-08T00:00:00.000	148018.0	1510.0	882.0	5.0
99	2021-12-15T00:00:00.000	149237.0	1219.0	885.0	3.0
100	2021-12-22T00:00:00.000	150283.0	1046.0	972.0	87.0
101	2021-12-29T00:00:00.000	152363.0	2080.0	974.0	2.0
102	2022-01-05T00:00:00.000	157886.0	5523.0	975.0	1.0
103	2022-01-12T00:00:00.000	170052.0	12166.0	981.0	6.0
104	2022-01-19T00:00:00.000	185787.0	15735.0	1047.0	66.0
105	2022-01-26T00:00:00.000	202626.0	16839.0	1077.0	30.0
106	2022-02-02T00:00:00.000	216048.0	13422.0	1089.0	12.0
107	2022-02-09T00:00:00.000	224165.0	8117.0	1110.0	21.0
108	2022-02-16T00:00:00.000	228123.0	3958.0	1137.0	27.0
109	2022-02-23T00:00:00.000	230807.0	2684.0	1159.0	22.0
110	2022-03-02T00:00:00.000	232898.0	2091.0	1187.0	28.0
111	2022-03-09T00:00:00.000	235338.0	2440.0	1197.0	10.0
112	2022-03-16T00:00:00.000	236745.0	1407.0	1198.0	1.0
113	2022-03-23T00:00:00.000	238168.0	1423.0	1215.0	17.0
114	2022-03-30T00:00:00.000	239613.0	1445.0	1224.0	9.0
115	2022-04-06T00:00:00.000	240990.0	1377.0	1224.0	0.0
116	2022-04-13T00:00:00.000	242227.0	1237.0	1230.0	6.0
117	2022-04-20T00:00:00.000	243740.0	1513.0	1243.0	13.0
118	2022-04-27T00:00:00.000	245165.0	1425.0	1247.0	4.0
119	2022-05-04T00:00:00.000	246582.0	1417.0	1248.0	1.0
120	2022-05-11T00:00:00.000	248121.0	1539.0	1259.0	11.0
121	2022-05-18T00:00:00.000	249818.0	1697.0	1270.0	11.0
122	2022-05-25T00:00:00.000	251699.0	1881.0	1270.0	0.0
123	2022-06-01T00:00:00.000	253643.0	1944.0	1270.0	0.0
124	2022-06-08T00:00:00.000	255700.0	2057.0	1270.0	0.0
125	2022-06-15T00:00:00.000	257682.0	1982.0	1270.0	0.0
126	2022-06-22T00:00:00.000	259819.0	2137.0	1270.0	0.0
127	2020-03-18T00:00:00.000	11.0	11.0	0.0	0.0
128	2021-05-26T00:00:00.000	67371.0	297.0	366.0	0.0
129	2021-05-19T00:00:00.000	67074.0	453.0	366.0	16.0
130	2020-09-16T00:00:00.000	6551.0	529.0	43.0	2.0
131	2021-05-12T00:00:00.000	66621.0	565.0	350.0	5.0
132	2022-08-31T00:00:00.000	279888.0	1208.0	1304.0	0.0
133	2022-08-24T00:00:00.000	278680.0	1673.0	1304.0	8.0
134	2021-05-05T00:00:00.000	66056.0	731.0	345.0	1.0
135	2020-09-09T00:00:00.000	6022.0	547.0	41.0	3.0



136	2020-05-13T00:00:00.000	389.0	15.0	10.0	0.0
137	2022-09-07T00:00:00.000	280767.0	879.0	1304.0	0.0
138	2022-09-14T00:00:00.000	281717.0	950.0	1329.0	25.0
139	2022-09-21T00:00:00.000	282361.0	644.0	1329.0	0.0
140	2022-09-28T00:00:00.000	282911.0	550.0	1329.0	0.0
141	2022-10-05T00:00:00.000	283548.0	637.0	1356.0	27.0
142	2022-10-12T00:00:00.000	284059.0	511.0	1356.0	0.0
143	2022-10-19T00:00:00.000	284406.0	347.0	1356.0	0.0
144	2022-10-26T00:00:00.000	284785.0	379.0	1376.0	20.0
145	2022-11-02T00:00:00.000	285144.0	359.0	1376.0	0.0
146	2022-11-09T00:00:00.000	285343.0	199.0	1376.0	0.0
147	2022-11-16T00:00:00.000	285733.0	390.0	1399.0	23.0
148	2022-11-23T00:00:00.000	286163.0	430.0	1399.0	0.0
149	2022-11-30T00:00:00.000	286561.0	398.0	1399.0	0.0
150	2022-12-07T00:00:00.000	287057.0	496.0	1399.0	0.0
151	2022-12-14T00:00:00.000	287411.0	354.0	1399.0	0.0
152	2022-12-21T00:00:00.000	287791.0	380.0	1418.0	19.0
153	2022-12-28T00:00:00.000	288123.0	332.0	1418.0	0.0
154	2023-01-04T00:00:00.000	288494.0	371.0	1418.0	0.0
155	2023-01-11T00:00:00.000	288964.0	470.0	1418.0	0.0
156	2023-01-18T00:00:00.000	289613.0	649.0	1418.0	0.0
157	2023-01-25T00:00:00.000	290267.0	654.0	1436.0	18.0
158	2023-02-01T00:00:00.000	291060.0	793.0	1436.0	0.0
159	2023-02-08T00:00:00.000	291752.0	692.0	1436.0	0.0
160	2023-02-15T00:00:00.000	292538.0	786.0	1436.0	0.0
161	2023-02-22T00:00:00.000	293313.0	775.0	1449.0	13.0
162	2023-03-01T00:00:00.000	293761.0	448.0	1449.0	0.0
163	2023-03-08T00:00:00.000	294343.0	582.0	1449.0	0.0
164	2023-03-15T00:00:00.000	294791.0	448.0	1449.0	0.0
165	2023-03-22T00:00:00.000	295287.0	496.0	1449.0	0.0
166	2023-03-29T00:00:00.000	295801.0	514.0	1468.0	19.0
167	2023-04-05T00:00:00.000	296202.0	401.0	1468.0	0.0
168	2023-04-12T00:00:00.000	296560.0	358.0	1468.0	0.0
169	2023-04-19T00:00:00.000	296921.0	361.0	1468.0	0.0
170	2023-04-26T00:00:00.000	297201.0	280.0	1468.0	0.0
171	2023-05-03T00:00:00.000	297389.0	188.0	1468.0	0.0
172	2023-05-10T00:00:00.000	297588.0	199.0	1468.0	0.0
173	2020-01-22T00:00:00.000	0.0	0.0	0.0	0.0
174	2020-01-29T00:00:00.000	0.0	0.0	0.0	0.0
175	2020-02-05T00:00:00.000	0.0	0.0	0.0	0.0
176	2020-02-12T00:00:00.000	0.0	0.0	0.0	0.0
177	2020-02-19T00:00:00.000	0.0	0.0	0.0	0.0
178	2020-02-26T00:00:00.000	0.0	0.0	0.0	0.0

179	2020-03-04T00:00:00.000	0.0	0.0	0.0	0.0
180	2020-03-11T00:00:00.000	3.0	3.0	0.0	0.0
181	2020-03-18T00:00:00.000	61.0	58.0	0.0	0.0
182	2020-03-25T00:00:00.000	472.0	411.0	1.0	1.0
183	2020-04-01T00:00:00.000	1175.0	703.0	26.0	25.0
184	2020-04-08T00:00:00.000	2614.0	1439.0	65.0	39.0
185	2020-04-15T00:00:00.000	4307.0	1693.0	110.0	45.0
186	2020-04-22T00:00:00.000	5692.0	1385.0	193.0	83.0
187	2020-04-29T00:00:00.000	6979.0	1287.0	255.0	62.0
188	2020-05-06T00:00:00.000	8769.0	1790.0	341.0	86.0
189	2020-05-13T00:00:00.000	10822.0	2053.0	448.0	107.0
190	2020-05-20T00:00:00.000	13186.0	2364.0	522.0	74.0
191	2020-05-27T00:00:00.000	16263.0	3077.0	583.0	61.0
192	2020-06-03T00:00:00.000	18954.0	2691.0	650.0	67.0
193	2020-06-10T00:00:00.000	22659.0	3705.0	742.0	92.0
194	2020-06-17T00:00:00.000	27941.0	5282.0	787.0	45.0
195	2020-06-24T00:00:00.000	32878.0	4937.0	886.0	99.0
196	2020-07-01T00:00:00.000	39647.0	6769.0	974.0	88.0
197	2020-07-08T00:00:00.000	48149.0	8502.0	1058.0	84.0
198	2020-07-15T00:00:00.000	60194.0	12045.0	1210.0	152.0
199	2020-07-22T00:00:00.000	72594.0	12400.0	1364.0	154.0
200	2020-07-29T00:00:00.000	84652.0	12058.0	1539.0	175.0
201	2020-08-05T00:00:00.000	95323.0	10671.0	1694.0	155.0
202	2020-08-12T00:00:00.000	104219.0	8896.0	1879.0	185.0
203	2020-08-19T00:00:00.000	111696.0	7477.0	1942.0	63.0
204	2020-08-26T00:00:00.000	119904.0	8208.0	2043.0	101.0
205	2020-09-02T00:00:00.000	128240.0	8336.0	2211.0	168.0
206	2020-09-09T00:00:00.000	134061.0	5821.0	2281.0	70.0
207	2020-09-16T00:00:00.000	140423.0	6362.0	2386.0	105.0
208	2020-09-23T00:00:00.000	146897.0	6474.0	2465.0	79.0
209	2020-09-30T00:00:00.000	154772.0	7875.0	2530.0	65.0
210	2020-10-07T00:00:00.000	161085.0	6313.0	2602.0	72.0
211	2020-10-14T00:00:00.000	168620.0	7535.0	2706.0	104.0
212	2020-10-21T00:00:00.000	176605.0	7985.0	2826.0	120.0
213	2020-10-28T00:00:00.000	188775.0	12170.0	2909.0	83.0
214	2020-11-04T00:00:00.000	198927.0	10152.0	3003.0	94.0
215	2020-11-11T00:00:00.000	208637.0	9710.0	3198.0	195.0
216	2020-11-18T00:00:00.000	223488.0	14851.0	3343.0	145.0
217	2020-11-25T00:00:00.000	239318.0	15830.0	3528.0	185.0
218	2020-12-02T00:00:00.000	256828.0	17510.0	3708.0	180.0
219	2020-12-09T00:00:00.000	280187.0	23359.0	3982.0	274.0
220	2020-12-16T00:00:00.000	305640.0	25453.0	4196.0	214.0
221	2020-12-23T00:00:00.000	334569.0	28929.0	4585.0	389.0

222	2020-12-30T00:00:00.000	356820.0	22251.0	4774.0	189.0
223	2021-01-06T00:00:00.000	384185.0	27365.0	4987.0	213.0
224	2021-01-13T00:00:00.000	410996.0	26811.0	5752.0	765.0
225	2021-01-20T00:00:00.000	429655.0	18659.0	6281.0	529.0
226	2021-01-27T00:00:00.000	449087.0	19432.0	7169.0	888.0
227	2021-02-03T00:00:00.000	465061.0	15974.0	8201.0	1032.0
228	2021-02-10T00:00:00.000	476015.0	10954.0	8888.0	687.0
229	2021-02-17T00:00:00.000	483177.0	7162.0	9347.0	459.0
230	2021-02-24T00:00:00.000	490165.0	6988.0	9741.0	394.0
231	2021-03-03T00:00:00.000	497144.0	6979.0	10026.0	285.0
232	2021-03-10T00:00:00.000	501400.0	4256.0	10219.0	193.0
233	2021-03-17T00:00:00.000	509465.0	8065.0	10360.0	141.0
234	2021-03-24T00:00:00.000	512669.0	3204.0	10481.0	121.0
235	2021-03-31T00:00:00.000	515353.0	2684.0	10547.0	66.0
236	2021-04-07T00:00:00.000	517448.0	2095.0	10650.0	103.0
237	2021-04-14T00:00:00.000	520759.0	3311.0	10725.0	75.0
238	2021-04-21T00:00:00.000	524305.0	3546.0	10799.0	74.0
239	2021-04-28T00:00:00.000	527085.0	2780.0	10876.0	77.0
240	2021-05-05T00:00:00.000	529459.0	2374.0	10928.0	52.0
241	2021-05-12T00:00:00.000	531748.0	2289.0	10993.0	65.0
242	2021-05-19T00:00:00.000	540890.0	9142.0	11040.0	47.0
243	2021-05-26T00:00:00.000	542828.0	1938.0	11132.0	92.0
244	2021-06-02T00:00:00.000	544588.0	1760.0	11161.0	29.0
245	2021-06-09T00:00:00.000	546829.0	2241.0	11241.0	80.0
246	2021-06-16T00:00:00.000	548305.0	1476.0	11280.0	39.0
247	2021-06-23T00:00:00.000	549396.0	1091.0	11318.0	38.0
248	2021-06-30T00:00:00.000	550979.0	1583.0	11350.0	32.0
249	2021-07-07T00:00:00.000	552911.0	1932.0	11386.0	36.0
250	2021-07-14T00:00:00.000	556613.0	3702.0	11426.0	40.0
251	2021-07-21T00:00:00.000	563944.0	7331.0	11459.0	33.0
252	2021-07-28T00:00:00.000	577463.0	13519.0	11508.0	49.0
253	2021-08-04T00:00:00.000	595816.0	18353.0	11560.0	52.0
254	2021-08-11T00:00:00.000	619752.0	23936.0	11689.0	129.0
255	2022-08-17T00:00:00.000	277007.0	1465.0	1296.0	0.0
256	2022-08-10T00:00:00.000	275542.0	1868.0	1296.0	21.0
257	2021-04-28T00:00:00.000	65325.0	1042.0	344.0	12.0
258	2022-08-03T00:00:00.000	273674.0	2573.0	1275.0	0.0
259	2021-10-20T00:00:00.000	815998.0	5498.0	15308.0	329.0
260	2021-10-13T00:00:00.000	810500.0	6249.0	14979.0	367.0
261	2022-07-27T00:00:00.000	271101.0	2050.0	1275.0	0.0
262	2021-04-21T00:00:00.000	64283.0	1146.0	332.0	20.0
263	2020-09-02T00:00:00.000	5475.0	474.0	38.0	2.0
264	2021-10-06T00:00:00.000	804251.0	9478.0	14612.0	412.0

265	2021-10-27T00:00:00.000	828643.0	12645.0	15432.0	124.0
266	2021-11-03T00:00:00.000	833481.0	4838.0	15668.0	236.0
267	2021-11-10T00:00:00.000	837339.0	3858.0	15910.0	242.0
268	2021-11-17T00:00:00.000	840934.0	3595.0	16020.0	110.0
269	2021-11-24T00:00:00.000	844206.0	3272.0	16099.0	79.0
270	2021-12-01T00:00:00.000	846306.0	2100.0	16140.0	41.0
271	2021-12-08T00:00:00.000	850098.0	3792.0	16201.0	61.0
272	2021-12-15T00:00:00.000	854884.0	4786.0	16303.0	102.0
273	2021-12-22T00:00:00.000	861110.0	6226.0	16378.0	75.0
274	2021-12-29T00:00:00.000	880307.0	19197.0	16453.0	75.0
275	2022-01-05T00:00:00.000	932250.0	51943.0	16502.0	49.0
276	2022-01-12T00:00:00.000	1004622.0	72372.0	16640.0	138.0
277	2022-01-19T00:00:00.000	1088370.0	83748.0	16756.0	116.0
278	2022-01-26T00:00:00.000	1161930.0	73560.0	16914.0	158.0
279	2022-02-02T00:00:00.000	1229300.0	67370.0	17215.0	301.0
280	2022-02-09T00:00:00.000	1254032.0	24732.0	17452.0	237.0
281	2022-02-16T00:00:00.000	1267908.0	13876.0	17748.0	296.0
282	2022-02-23T00:00:00.000	1275357.0	7449.0	18006.0	258.0
283	2022-03-02T00:00:00.000	1281606.0	6249.0	18334.0	328.0
284	2022-03-09T00:00:00.000	1287823.0	6217.0	18694.0	360.0
285	2022-03-16T00:00:00.000	1290138.0	2315.0	18944.0	250.0
286	2022-03-23T00:00:00.000	1291927.0	1789.0	19167.0	223.0
287	2022-03-30T00:00:00.000	1295015.0	3088.0	19284.0	117.0
288	2022-04-06T00:00:00.000	1296286.0	1271.0	19370.0	86.0
289	2022-04-13T00:00:00.000	1297392.0	1106.0	19440.0	70.0
290	2022-04-20T00:00:00.000	1298637.0	1245.0	19523.0	83.0
291	2022-04-27T00:00:00.000	1300274.0	1637.0	19558.0	35.0
292	2022-05-04T00:00:00.000	1301804.0	1530.0	19590.0	32.0
293	2022-05-11T00:00:00.000	1303827.0	2023.0	19606.0	16.0
294	2022-05-18T00:00:00.000	1306662.0	2835.0	19633.0	27.0
295	2022-05-25T00:00:00.000	1310521.0	3859.0	19651.0	18.0
296	2022-06-01T00:00:00.000	1315934.0	5413.0	19664.0	13.0
297	2022-06-08T00:00:00.000	1322957.0	7023.0	19676.0	12.0
298	2022-06-15T00:00:00.000	1331452.0	8495.0	19696.0	20.0
299	2022-06-22T00:00:00.000	1342150.0	10698.0	19722.0	26.0
300	2022-06-29T00:00:00.000	1355340.0	13190.0	19740.0	18.0
301	2022-07-06T00:00:00.000	1367570.0	12230.0	19766.0	26.0
302	2022-07-13T00:00:00.000	1384836.0	17266.0	19812.0	46.0
303	2022-07-20T00:00:00.000	1401893.0	17057.0	19852.0	40.0
304	2022-07-27T00:00:00.000	1419075.0	17182.0	19890.0	38.0
305	2022-08-03T00:00:00.000	1424411.0	5336.0	19891.0	1.0
306	2022-08-10T00:00:00.000	1436458.0	12047.0	19974.0	83.0
307	2022-08-17T00:00:00.000	1449812.0	13354.0	20026.0	52.0

308	2022-08-24T00:00:00.000	1463933.0	14121.0	20041.0	15.0
309	2022-08-31T00:00:00.000	1479605.0	15672.0	20048.0	7.0
310	2022-09-07T00:00:00.000	1494300.0	14695.0	20160.0	112.0
311	2022-09-14T00:00:00.000	1504180.0	9880.0	20239.0	79.0
312	2022-09-21T00:00:00.000	1512134.0	7954.0	20322.0	83.0
313	2022-09-28T00:00:00.000	1517904.0	5770.0	20395.0	73.0
314	2022-10-05T00:00:00.000	1522135.0	4231.0	20422.0	27.0
315	2022-10-12T00:00:00.000	1525724.0	3589.0	20473.0	51.0
316	2022-10-19T00:00:00.000	1528739.0	3015.0	20505.0	32.0
317	2022-10-26T00:00:00.000	1531305.0	2566.0	20533.0	28.0
318	2022-11-02T00:00:00.000	1534287.0	2982.0	20558.0	25.0
319	2022-11-09T00:00:00.000	1540329.0	6042.0	20608.0	50.0
320	2022-11-16T00:00:00.000	1542227.0	1898.0	20617.0	9.0
321	2022-11-23T00:00:00.000	1545099.0	2872.0	20631.0	14.0
322	2022-11-30T00:00:00.000	1549285.0	4186.0	20652.0	21.0
323	2022-12-07T00:00:00.000	1555092.0	5807.0	20682.0	30.0
324	2022-12-14T00:00:00.000	1561557.0	6465.0	20704.0	22.0
325	2022-12-21T00:00:00.000	1568934.0	7377.0	20737.0	33.0
326	2022-12-28T00:00:00.000	1573637.0	4703.0	20757.0	20.0
327	2023-01-04T00:00:00.000	1587224.0	13587.0	20776.0	19.0
328	2023-01-11T00:00:00.000	1596149.0	8925.0	20820.0	44.0
329	2023-01-18T00:00:00.000	1602891.0	6742.0	20846.0	26.0
330	2023-01-25T00:00:00.000	1610535.0	7644.0	20870.0	24.0
331	2023-02-01T00:00:00.000	1617850.0	7315.0	20882.0	12.0
332	2023-02-08T00:00:00.000	1627670.0	9820.0	20892.0	10.0
333	2023-02-15T00:00:00.000	1633743.0	6073.0	20899.0	7.0
334	2023-02-22T00:00:00.000	1638348.0	4605.0	20932.0	33.0
335	2023-03-01T00:00:00.000	1642062.0	3714.0	21001.0	69.0
336	2023-03-08T00:00:00.000	1644533.0	2471.0	21032.0	31.0
337	2023-03-15T00:00:00.000	1646423.0	1890.0	21091.0	59.0
338	2023-03-22T00:00:00.000	1648385.0	1962.0	21113.0	22.0
339	2023-03-29T00:00:00.000	1650449.0	2064.0	21127.0	14.0
340	2023-04-05T00:00:00.000	1652469.0	2020.0	21131.0	4.0
341	2023-04-12T00:00:00.000	1654101.0	1632.0	21133.0	2.0
342	2023-04-19T00:00:00.000	1655661.0	1560.0	21133.0	0.0
343	2023-04-26T00:00:00.000	1657175.0	1514.0	21133.0	0.0
344	2023-05-03T00:00:00.000	1658639.0	1464.0	21137.0	4.0
345	2023-05-10T00:00:00.000	1659936.0	1297.0	21138.0	1.0
346	2020-01-22T00:00:00.000	0.0	0.0	0.0	0.0
347	2020-01-29T00:00:00.000	0.0	0.0	0.0	0.0
348	2020-02-05T00:00:00.000	1.0	1.0	0.0	0.0
349	2020-02-12T00:00:00.000	4.0	3.0	0.0	0.0
350	2020-02-19T00:00:00.000	5.0	1.0	0.0	0.0

351	2020-02-26T00:00:00.000	8.0	3.0	0.0	0.0
352	2020-03-04T00:00:00.000	8.0	0.0	0.0	0.0
353	2020-03-11T00:00:00.000	16.0	8.0	0.0	0.0
354	2020-03-18T00:00:00.000	86.0	70.0	3.0	3.0
355	2020-03-25T00:00:00.000	365.0	279.0	19.0	16.0
356	2020-04-01T00:00:00.000	739.0	374.0	31.0	12.0
357	2020-04-08T00:00:00.000	1229.0	490.0	50.0	19.0
358	2020-04-15T00:00:00.000	1897.0	668.0	66.0	16.0
359	2020-04-22T00:00:00.000	2798.0	901.0	100.0	34.0
360	2020-04-29T00:00:00.000	3497.0	699.0	117.0	17.0
361	2020-05-06T00:00:00.000	4146.0	649.0	129.0	12.0
362	2020-05-13T00:00:00.000	4869.0	723.0	151.0	22.0
363	2020-05-20T00:00:00.000	5794.0	925.0	168.0	17.0
364	2020-05-27T00:00:00.000	6836.0	1042.0	195.0	27.0
365	2020-06-03T00:00:00.000	8712.0	1876.0	242.0	47.0
366	2020-06-10T00:00:00.000	11436.0	2724.0	300.0	58.0
367	2020-06-17T00:00:00.000	14118.0	2682.0	348.0	48.0
368	2020-06-24T00:00:00.000	18412.0	4294.0	424.0	76.0
369	2020-07-01T00:00:00.000	21777.0	3365.0	476.0	52.0
370	2020-07-08T00:00:00.000	25226.0	3449.0	544.0	68.0
371	2020-07-15T00:00:00.000	29334.0	4108.0	621.0	77.0
372	2020-07-22T00:00:00.000	33983.0	4649.0	711.0	90.0
373	2020-07-29T00:00:00.000	39577.0	5594.0	833.0	122.0
374	2020-08-05T00:00:00.000	44992.0	5415.0	931.0	98.0
375	2020-08-12T00:00:00.000	49771.0	4779.0	1018.0	87.0
376	2020-08-19T00:00:00.000	54001.0	4230.0	1106.0	88.0
377	2020-08-26T00:00:00.000	57914.0	3913.0	1197.0	91.0
378	2020-09-02T00:00:00.000	62358.0	4444.0	1271.0	74.0
379	2020-09-09T00:00:00.000	67232.0	4874.0	1370.0	99.0
380	2020-09-16T00:00:00.000	72167.0	4935.0	1571.0	201.0
381	2020-09-23T00:00:00.000	77756.0	5589.0	1700.0	129.0
382	2020-09-30T00:00:00.000	83295.0	5539.0	1830.0	130.0
383	2020-10-07T00:00:00.000	88478.0	5183.0	1981.0	151.0
384	2020-10-14T00:00:00.000	94684.0	6206.0	2137.0	156.0
385	2020-10-21T00:00:00.000	101111.0	6427.0	2273.0	136.0
386	2020-10-28T00:00:00.000	108151.0	7040.0	2459.0	186.0
387	2020-11-04T00:00:00.000	115319.0	7168.0	2628.0	169.0
388	2020-11-11T00:00:00.000	125971.0	10652.0	2879.0	251.0
389	2020-11-18T00:00:00.000	137311.0	11340.0	3106.0	227.0
390	2020-11-25T00:00:00.000	149905.0	12594.0	3325.0	219.0
391	2020-12-02T00:00:00.000	161816.0	11911.0	3591.0	266.0
392	2020-12-09T00:00:00.000	176965.0	15149.0	3823.0	232.0
393	2020-12-16T00:00:00.000	192416.0	15451.0	4057.0	234.0

394	2020-12-23T00:00:00.000	207289.0	14873.0	4352.0	295.0
395	2020-12-30T00:00:00.000	222518.0	15229.0	4654.0	302.0
396	2021-01-06T00:00:00.000	241947.0	19429.0	4971.0	317.0
397	2021-01-13T00:00:00.000	261275.0	19328.0	5165.0	194.0
398	2021-01-20T00:00:00.000	275473.0	14198.0	5326.0	161.0
399	2021-01-27T00:00:00.000	288060.0	12587.0	5509.0	183.0
400	2021-02-03T00:00:00.000	299585.0	11525.0	5629.0	120.0
401	2021-02-10T00:00:00.000	308944.0	9359.0	5690.0	61.0
402	2021-02-17T00:00:00.000	313322.0	4378.0	5739.0	49.0
403	2021-02-24T00:00:00.000	316560.0	3238.0	5778.0	39.0
404	2021-03-03T00:00:00.000	323963.0	7403.0	5835.0	57.0
405	2021-03-10T00:00:00.000	326247.0	2284.0	5875.0	40.0
406	2021-03-17T00:00:00.000	328314.0	2067.0	5920.0	45.0
407	2021-03-24T00:00:00.000	329745.0	1431.0	5941.0	21.0
408	2021-03-31T00:00:00.000	330917.0	1172.0	5973.0	32.0
409	2021-04-07T00:00:00.000	331991.0	1074.0	5988.0	15.0
410	2021-04-14T00:00:00.000	333154.0	1163.0	6015.0	27.0
411	2021-04-21T00:00:00.000	334532.0	1378.0	6035.0	20.0
412	2021-04-28T00:00:00.000	335766.0	1234.0	6050.0	15.0
413	2021-05-05T00:00:00.000	337254.0	1488.0	6067.0	17.0
414	2021-05-12T00:00:00.000	338553.0	1299.0	6092.0	25.0
415	2021-05-19T00:00:00.000	339892.0	1339.0	6111.0	19.0
416	2021-05-26T00:00:00.000	341178.0	1286.0	6126.0	15.0
417	2021-06-02T00:00:00.000	342170.0	992.0	6143.0	17.0
418	2021-06-09T00:00:00.000	343421.0	1251.0	6170.0	27.0
419	2021-06-16T00:00:00.000	345162.0	1741.0	6201.0	31.0
420	2021-06-23T00:00:00.000	347070.0	1908.0	6232.0	31.0
421	2021-06-30T00:00:00.000	349892.0	2822.0	6281.0	49.0
422	2021-07-07T00:00:00.000	353663.0	3771.0	6379.0	98.0
423	2021-07-14T00:00:00.000	360747.0	7084.0	6495.0	116.0
424	2021-07-21T00:00:00.000	369019.0	8272.0	6655.0	160.0
425	2021-07-28T00:00:00.000	381470.0	12451.0	6837.0	182.0
426	2021-08-04T00:00:00.000	395304.0	13834.0	7058.0	221.0
427	2021-08-11T00:00:00.000	411643.0	16339.0	7270.0	212.0
428	2021-08-18T00:00:00.000	426682.0	15039.0	7509.0	239.0
429	2021-08-25T00:00:00.000	442345.0	15663.0	7713.0	204.0
430	2021-09-01T00:00:00.000	457223.0	14878.0	7857.0	144.0
431	2021-09-08T00:00:00.000	469151.0	11928.0	7981.0	124.0
432	2021-09-15T00:00:00.000	480720.0	11569.0	8121.0	140.0
433	2021-09-22T00:00:00.000	489835.0	9115.0	8233.0	112.0
434	2021-09-29T00:00:00.000	496654.0	6819.0	8284.0	51.0
435	2021-10-06T00:00:00.000	501766.0	5112.0	8357.0	73.0
436	2021-10-13T00:00:00.000	506381.0	4615.0	8547.0	190.0

437	2021-10-20T00:00:00.000	510366.0	3985.0	8592.0	45.0
438	2021-10-27T00:00:00.000	513476.0	3110.0	8624.0	32.0
439	2021-11-03T00:00:00.000	516598.0	3122.0	8670.0	46.0
440	2021-11-10T00:00:00.000	519911.0	3313.0	8736.0	66.0
441	2021-11-17T00:00:00.000	524388.0	4477.0	8796.0	60.0
442	2021-11-24T00:00:00.000	528036.0	3648.0	8870.0	74.0
443	2021-12-01T00:00:00.000	531915.0	3879.0	8960.0	90.0
444	2021-12-08T00:00:00.000	537551.0	5636.0	9074.0	114.0
445	2021-12-15T00:00:00.000	542482.0	4931.0	9184.0	110.0
446	2021-12-22T00:00:00.000	548163.0	5681.0	9276.0	92.0
447	2021-12-29T00:00:00.000	559468.0	11305.0	9435.0	159.0
448	2022-01-05T00:00:00.000	589778.0	30310.0	9638.0	203.0
449	2022-01-12T00:00:00.000	640097.0	50319.0	9856.0	218.0
450	2022-01-19T00:00:00.000	702993.0	62896.0	10174.0	318.0
451	2022-01-26T00:00:00.000	749248.0	46255.0	10450.0	276.0
452	2022-02-02T00:00:00.000	779587.0	30339.0	10674.0	224.0
453	2022-02-09T00:00:00.000	789258.0	9671.0	10810.0	136.0
454	2022-02-16T00:00:00.000	798613.0	9355.0	10890.0	80.0
455	2022-02-23T00:00:00.000	804690.0	6077.0	10929.0	39.0
456	2022-03-02T00:00:00.000	808627.0	3937.0	10993.0	64.0
457	2022-03-09T00:00:00.000	811288.0	2661.0	11061.0	68.0
458	2022-03-16T00:00:00.000	814128.0	2840.0	11112.0	51.0
459	2022-03-23T00:00:00.000	817799.0	3671.0	11148.0	36.0
460	2022-03-30T00:00:00.000	818667.0	868.0	11215.0	67.0
461	2022-04-06T00:00:00.000	819467.0	800.0	11290.0	75.0
462	2022-04-13T00:00:00.000	820333.0	866.0	11317.0	27.0
463	2022-04-20T00:00:00.000	821162.0	829.0	11347.0	30.0
464	2022-04-27T00:00:00.000	822236.0	1074.0	11360.0	13.0
465	2022-05-04T00:00:00.000	823376.0	1140.0	11378.0	18.0
466	2022-05-11T00:00:00.000	824841.0	1465.0	11383.0	5.0
467	2022-05-18T00:00:00.000	826722.0	1881.0	11398.0	15.0
468	2022-05-25T00:00:00.000	828998.0	2276.0	11445.0	47.0
469	2022-06-01T00:00:00.000	831151.0	2153.0	11485.0	40.0
470	2022-06-08T00:00:00.000	835099.0	3948.0	11508.0	23.0
471	2022-06-15T00:00:00.000	839454.0	4355.0	11526.0	18.0
472	2022-06-22T00:00:00.000	844253.0	4799.0	11550.0	24.0
473	2022-06-29T00:00:00.000	851042.0	6789.0	11578.0	28.0
474	2022-07-06T00:00:00.000	858207.0	7165.0	11593.0	15.0
475	2022-07-13T00:00:00.000	867830.0	9623.0	11616.0	23.0
476	2022-07-20T00:00:00.000	877018.0	9188.0	11651.0	35.0
477	2022-07-27T00:00:00.000	885329.0	8311.0	11687.0	36.0
478	2022-08-03T00:00:00.000	892333.0	7004.0	11732.0	45.0
479	2022-08-10T00:00:00.000	898472.0	6139.0	11787.0	55.0



480	2022-08-17T00:00:00.000	904482.0	6010.0	11831.0	44.0
481	2022-08-24T00:00:00.000	910449.0	5967.0	11878.0	47.0
482	2022-08-31T00:00:00.000	916929.0	6480.0	11917.0	39.0
483	2022-09-07T00:00:00.000	922469.0	5540.0	11943.0	26.0
484	2022-09-14T00:00:00.000	927828.0	5359.0	11969.0	26.0
485	2022-09-21T00:00:00.000	931736.0	3908.0	12028.0	59.0
486	2022-09-28T00:00:00.000	934462.0	2726.0	12130.0	102.0
487	2022-10-05T00:00:00.000	936301.0	1839.0	12234.0	104.0
488	2022-10-12T00:00:00.000	938106.0	1805.0	12333.0	99.0
489	2022-10-19T00:00:00.000	940016.0	1910.0	12393.0	60.0
490	2022-10-26T00:00:00.000	941719.0	1703.0	12449.0	56.0
491	2022-11-02T00:00:00.000	943557.0	1838.0	12503.0	54.0
492	2022-11-09T00:00:00.000	945518.0	1961.0	12520.0	17.0
493	2022-11-16T00:00:00.000	947244.0	1726.0	12525.0	5.0
494	2022-11-23T00:00:00.000	948939.0	1695.0	12542.0	17.0
495	2022-11-30T00:00:00.000	951305.0	2366.0	12560.0	18.0
496	2022-12-07T00:00:00.000	954689.0	3384.0	12599.0	39.0
497	2022-12-14T00:00:00.000	958206.0	3517.0	12643.0	44.0
498	2022-12-21T00:00:00.000	961886.0	3680.0	12667.0	24.0
499	2022-12-28T00:00:00.000	964645.0	2759.0	12681.0	14.0
500	2023-01-04T00:00:00.000	968469.0	3824.0	12694.0	13.0
501	2023-01-11T00:00:00.000	971652.0	3183.0	12729.0	35.0
502	2023-01-18T00:00:00.000	973874.0	2222.0	12757.0	28.0
503	2023-01-25T00:00:00.000	976195.0	2321.0	12803.0	46.0
504	2023-02-01T00:00:00.000	977800.0	1605.0	12849.0	46.0
505	2023-02-08T00:00:00.000	979670.0	1870.0	12875.0	26.0
506	2023-02-15T00:00:00.000	981101.0	1431.0	12901.0	26.0
507	2023-02-22T00:00:00.000	984182.0	3081.0	12917.0	16.0
508	2023-03-01T00:00:00.000	985633.0	1451.0	12930.0	13.0
509	2023-03-08T00:00:00.000	987081.0	1448.0	12948.0	18.0
510	2023-03-15T00:00:00.000	988321.0	1240.0	12958.0	10.0
511	2021-09-29T00:00:00.000	794773.0	16224.0	14200.0	535.0
512	2022-07-20T00:00:00.000	269051.0	2345.0	1275.0	0.0
513	2021-09-22T00:00:00.000	778549.0	20656.0	13665.0	881.0
514	2020-01-29T00:00:00.000	0.0	0.0	0.0	0.0
515	2020-01-22T00:00:00.000	0.0	0.0	0.0	0.0
516	2021-09-15T00:00:00.000	757893.0	25739.0	12784.0	297.0
517	2022-07-13T00:00:00.000	266706.0	2133.0	1275.0	5.0
518	2021-04-14T00:00:00.000	63137.0	1113.0	312.0	1.0
519	2023-05-10T00:00:00.000	995043.0	657.0	13115.0	0.0
520	2023-05-03T00:00:00.000	994386.0	898.0	13115.0	0.0
521	2020-02-05T00:00:00.000	0.0	0.0	0.0	0.0
522	2020-02-12T00:00:00.000	0.0	0.0	0.0	0.0

523	2020-02-19T00:00:00.000	0.0	0.0	0.0	0.0
524	2020-02-26T00:00:00.000	0.0	0.0	0.0	0.0
525	2020-03-04T00:00:00.000	0.0	0.0	0.0	0.0
526	2020-03-11T00:00:00.000	0.0	0.0	0.0	0.0
527	2020-03-18T00:00:00.000	0.0	0.0	0.0	0.0
528	2020-03-25T00:00:00.000	0.0	0.0	0.0	0.0
529	2020-04-01T00:00:00.000	0.0	0.0	0.0	0.0
530	2020-04-08T00:00:00.000	0.0	0.0	0.0	0.0
531	2020-04-15T00:00:00.000	0.0	0.0	0.0	0.0
532	2020-04-22T00:00:00.000	0.0	0.0	0.0	0.0
533	2020-04-29T00:00:00.000	0.0	0.0	0.0	0.0
534	2020-05-06T00:00:00.000	0.0	0.0	0.0	0.0
535	2020-05-13T00:00:00.000	0.0	0.0	0.0	0.0
536	2020-05-20T00:00:00.000	0.0	0.0	0.0	0.0
537	2020-05-27T00:00:00.000	0.0	0.0	0.0	0.0
538	2020-06-03T00:00:00.000	0.0	0.0	0.0	0.0
539	2020-06-10T00:00:00.000	0.0	0.0	0.0	0.0
540	2020-06-17T00:00:00.000	0.0	0.0	0.0	0.0
541	2020-06-24T00:00:00.000	0.0	0.0	0.0	0.0
542	2020-07-01T00:00:00.000	0.0	0.0	0.0	0.0
543	2020-07-08T00:00:00.000	0.0	0.0	0.0	0.0
544	2020-07-15T00:00:00.000	0.0	0.0	0.0	0.0
545	2020-07-22T00:00:00.000	0.0	0.0	0.0	0.0
546	2020-07-29T00:00:00.000	0.0	0.0	0.0	0.0
547	2020-08-05T00:00:00.000	0.0	0.0	0.0	0.0
548	2020-08-12T00:00:00.000	0.0	0.0	0.0	0.0
549	2020-08-19T00:00:00.000	0.0	0.0	0.0	0.0
550	2020-08-26T00:00:00.000	0.0	0.0	0.0	0.0
551	2020-09-02T00:00:00.000	0.0	0.0	0.0	0.0
552	2020-09-09T00:00:00.000	0.0	0.0	0.0	0.0
553	2020-09-16T00:00:00.000	0.0	0.0	0.0	0.0
554	2020-09-23T00:00:00.000	0.0	0.0	0.0	0.0
555	2020-09-30T00:00:00.000	0.0	0.0	0.0	0.0
556	2020-10-07T00:00:00.000	0.0	0.0	0.0	0.0
557	2020-10-14T00:00:00.000	0.0	0.0	0.0	0.0
558	2020-10-21T00:00:00.000	0.0	0.0	0.0	0.0
559	2020-10-28T00:00:00.000	0.0	0.0	0.0	0.0
560	2020-11-04T00:00:00.000	0.0	0.0	0.0	0.0
561	2020-11-11T00:00:00.000	0.0	0.0	0.0	0.0
562	2020-11-18T00:00:00.000	0.0	0.0	0.0	0.0
563	2020-11-25T00:00:00.000	0.0	0.0	0.0	0.0
564	2020-12-02T00:00:00.000	0.0	0.0	0.0	0.0
565	2020-12-09T00:00:00.000	0.0	0.0	0.0	0.0

566	2020-12-16T00:00:00.000	0.0	0.0	0.0	0.0
567	2020-12-23T00:00:00.000	0.0	0.0	0.0	0.0
568	2020-12-30T00:00:00.000	0.0	0.0	0.0	0.0
569	2021-01-06T00:00:00.000	0.0	0.0	0.0	0.0
570	2021-01-13T00:00:00.000	0.0	0.0	0.0	0.0
571	2021-01-20T00:00:00.000	0.0	0.0	0.0	0.0
572	2021-01-27T00:00:00.000	0.0	0.0	0.0	0.0
573	2021-02-03T00:00:00.000	0.0	0.0	0.0	0.0
574	2021-02-10T00:00:00.000	0.0	0.0	0.0	0.0
575	2021-02-17T00:00:00.000	0.0	0.0	0.0	0.0
576	2021-02-24T00:00:00.000	0.0	0.0	0.0	0.0
577	2021-03-03T00:00:00.000	0.0	0.0	0.0	0.0
578	2021-03-10T00:00:00.000	0.0	0.0	0.0	0.0
579	2021-03-17T00:00:00.000	0.0	0.0	0.0	0.0
580	2021-03-24T00:00:00.000	0.0	0.0	0.0	0.0
581	2021-03-31T00:00:00.000	0.0	0.0	0.0	0.0
582	2021-04-07T00:00:00.000	0.0	0.0	0.0	0.0
583	2021-04-14T00:00:00.000	0.0	0.0	0.0	0.0
584	2021-04-21T00:00:00.000	0.0	0.0	0.0	0.0
585	2021-04-28T00:00:00.000	0.0	0.0	0.0	0.0
586	2021-05-05T00:00:00.000	0.0	0.0	0.0	0.0
587	2021-05-12T00:00:00.000	0.0	0.0	0.0	0.0
588	2021-05-19T00:00:00.000	0.0	0.0	0.0	0.0
589	2021-05-26T00:00:00.000	0.0	0.0	0.0	0.0
590	2021-06-02T00:00:00.000	0.0	0.0	0.0	0.0
591	2021-06-09T00:00:00.000	0.0	0.0	0.0	0.0
592	2021-06-16T00:00:00.000	0.0	0.0	0.0	0.0
593	2021-06-23T00:00:00.000	0.0	0.0	0.0	0.0
594	2021-06-30T00:00:00.000	0.0	0.0	0.0	0.0
595	2021-07-07T00:00:00.000	0.0	0.0	0.0	0.0
596	2021-07-14T00:00:00.000	0.0	0.0	0.0	0.0
597	2021-07-21T00:00:00.000	0.0	0.0	0.0	0.0
598	2021-07-28T00:00:00.000	0.0	0.0	0.0	0.0
599	2021-08-04T00:00:00.000	0.0	0.0	0.0	0.0
600	2021-08-11T00:00:00.000	0.0	0.0	0.0	0.0
601	2021-08-18T00:00:00.000	0.0	0.0	0.0	0.0
602	2021-08-25T00:00:00.000	0.0	0.0	0.0	0.0
603	2021-09-01T00:00:00.000	0.0	0.0	0.0	0.0
604	2021-09-08T00:00:00.000	0.0	0.0	0.0	0.0
605	2021-09-15T00:00:00.000	0.0	0.0	0.0	0.0
606	2021-09-22T00:00:00.000	1.0	1.0	0.0	0.0
607	2021-09-29T00:00:00.000	1.0	0.0	0.0	0.0
608	2021-10-06T00:00:00.000	3.0	2.0	0.0	0.0

609	2021-10-13T00:00:00.000	3.0	0.0	0.0	0.0
610	2021-10-20T00:00:00.000	3.0	0.0	0.0	0.0
611	2021-10-27T00:00:00.000	4.0	1.0	0.0	0.0
612	2021-11-03T00:00:00.000	4.0	0.0	0.0	0.0
613	2021-11-10T00:00:00.000	4.0	0.0	0.0	0.0
614	2021-11-17T00:00:00.000	5.0	1.0	0.0	0.0
615	2021-11-24T00:00:00.000	5.0	0.0	0.0	0.0
616	2021-12-01T00:00:00.000	10.0	5.0	0.0	0.0
617	2021-12-08T00:00:00.000	10.0	0.0	0.0	0.0
618	2021-12-15T00:00:00.000	10.0	0.0	0.0	0.0
619	2021-12-22T00:00:00.000	11.0	1.0	0.0	0.0
620	2021-12-29T00:00:00.000	11.0	0.0	0.0	0.0
621	2022-01-05T00:00:00.000	11.0	0.0	0.0	0.0
622	2022-01-12T00:00:00.000	18.0	7.0	0.0	0.0
623	2022-01-19T00:00:00.000	18.0	0.0	0.0	0.0
624	2022-01-26T00:00:00.000	18.0	0.0	0.0	0.0
625	2022-02-02T00:00:00.000	22.0	4.0	0.0	0.0
626	2022-02-09T00:00:00.000	57.0	35.0	0.0	0.0
627	2022-02-16T00:00:00.000	57.0	0.0	0.0	0.0
628	2022-02-23T00:00:00.000	72.0	15.0	0.0	0.0
629	2022-03-02T00:00:00.000	146.0	74.0	0.0	0.0
630	2022-03-09T00:00:00.000	352.0	206.0	0.0	0.0
631	2022-03-16T00:00:00.000	779.0	427.0	0.0	0.0
632	2022-03-23T00:00:00.000	1993.0	1214.0	0.0	0.0
633	2022-03-30T00:00:00.000	3483.0	1490.0	3.0	3.0
634	2022-04-06T00:00:00.000	5018.0	1535.0	8.0	5.0
635	2022-04-13T00:00:00.000	5536.0	518.0	18.0	10.0
636	2022-04-20T00:00:00.000	5663.0	127.0	21.0	3.0
637	2022-04-27T00:00:00.000	5817.0	154.0	26.0	5.0
638	2022-05-04T00:00:00.000	5873.0	56.0	27.0	1.0
639	2022-05-11T00:00:00.000	5991.0	118.0	30.0	3.0
640	2022-05-18T00:00:00.000	6065.0	74.0	30.0	0.0
641	2022-05-25T00:00:00.000	6110.0	45.0	31.0	1.0
642	2022-06-01T00:00:00.000	6192.0	82.0	31.0	0.0
643	2022-06-08T00:00:00.000	6192.0	0.0	31.0	0.0
644	2022-06-15T00:00:00.000	6270.0	78.0	31.0	0.0
645	2022-06-22T00:00:00.000	6342.0	72.0	31.0	0.0
646	2022-06-29T00:00:00.000	6414.0	72.0	31.0	0.0
647	2022-07-06T00:00:00.000	6505.0	91.0	31.0	0.0
648	2022-07-13T00:00:00.000	6505.0	0.0	31.0	0.0
649	2022-07-20T00:00:00.000	7471.0	966.0	33.0	2.0
650	2022-07-27T00:00:00.000	7471.0	0.0	33.0	0.0
651	2022-08-03T00:00:00.000	7952.0	481.0	33.0	0.0

652	2022-08-10T00:00:00.000	8042.0	90.0	33.0	0.0
653	2022-08-17T00:00:00.000	8042.0	0.0	33.0	0.0
654	2022-08-24T00:00:00.000	8168.0	126.0	34.0	1.0
655	2022-08-31T00:00:00.000	8168.0	0.0	34.0	0.0
656	2022-09-07T00:00:00.000	8217.0	49.0	34.0	0.0
657	2022-09-14T00:00:00.000	8217.0	0.0	34.0	0.0
658	2022-09-21T00:00:00.000	8244.0	27.0	34.0	0.0
659	2022-09-28T00:00:00.000	8247.0	3.0	34.0	0.0
660	2022-10-05T00:00:00.000	8250.0	3.0	34.0	0.0
661	2022-10-12T00:00:00.000	8250.0	0.0	34.0	0.0
662	2022-10-19T00:00:00.000	8251.0	1.0	34.0	0.0
663	2022-10-26T00:00:00.000	8257.0	6.0	34.0	0.0
664	2022-11-02T00:00:00.000	8257.0	0.0	34.0	0.0
665	2022-11-09T00:00:00.000	8257.0	0.0	34.0	0.0
666	2022-11-16T00:00:00.000	8262.0	5.0	34.0	0.0
667	2022-11-23T00:00:00.000	8262.0	0.0	34.0	0.0
668	2022-11-30T00:00:00.000	8263.0	1.0	34.0	0.0
669	2022-12-07T00:00:00.000	8264.0	1.0	34.0	0.0
670	2022-12-14T00:00:00.000	8265.0	1.0	34.0	0.0
671	2022-12-21T00:00:00.000	8266.0	1.0	34.0	0.0
672	2022-12-28T00:00:00.000	8266.0	0.0	34.0	0.0
673	2023-01-04T00:00:00.000	8266.0	0.0	34.0	0.0
674	2023-01-11T00:00:00.000	8309.0	43.0	34.0	0.0
675	2023-01-18T00:00:00.000	8309.0	0.0	34.0	0.0
676	2023-01-25T00:00:00.000	8317.0	8.0	34.0	0.0
677	2023-02-01T00:00:00.000	8320.0	3.0	34.0	0.0
678	2023-02-08T00:00:00.000	8320.0	0.0	34.0	0.0
679	2023-02-15T00:00:00.000	8320.0	0.0	34.0	0.0
680	2023-02-22T00:00:00.000	8320.0	0.0	34.0	0.0
681	2023-03-01T00:00:00.000	8320.0	0.0	34.0	0.0
682	2023-03-08T00:00:00.000	8320.0	0.0	34.0	0.0
683	2023-03-15T00:00:00.000	8320.0	0.0	34.0	0.0
684	2023-03-22T00:00:00.000	8321.0	1.0	34.0	0.0
685	2023-03-29T00:00:00.000	8324.0	3.0	34.0	0.0
686	2023-04-05T00:00:00.000	8326.0	2.0	34.0	0.0
687	2023-04-12T00:00:00.000	8326.0	0.0	34.0	0.0
688	2023-04-19T00:00:00.000	8329.0	3.0	34.0	0.0
689	2023-04-26T00:00:00.000	8329.0	0.0	34.0	0.0
690	2023-05-03T00:00:00.000	8329.0	0.0	34.0	0.0
691	2023-05-10T00:00:00.000	8331.0	2.0	34.0	0.0
692	2020-01-22T00:00:00.000	0.0	0.0	0.0	0.0
693	2020-01-29T00:00:00.000	1.0	1.0	0.0	0.0
694	2020-02-05T00:00:00.000	1.0	0.0	0.0	0.0

695	2020-02-12T00:00:00.000	1.0	0.0	0.0	0.0
696	2020-02-19T00:00:00.000	1.0	0.0	0.0	0.0
697	2020-02-26T00:00:00.000	1.0	0.0	0.0	0.0
698	2020-03-04T00:00:00.000	1.0	0.0	0.0	0.0
699	2020-03-11T00:00:00.000	9.0	8.0	0.0	0.0
700	2020-03-18T00:00:00.000	27.0	18.0	0.0	0.0
701	2020-03-25T00:00:00.000	401.0	374.0	6.0	6.0
702	2020-04-01T00:00:00.000	1413.0	1012.0	32.0	26.0
703	2020-04-08T00:00:00.000	2726.0	1313.0	89.0	57.0
704	2020-04-15T00:00:00.000	3969.0	1243.0	155.0	66.0
705	2020-04-22T00:00:00.000	5473.0	1504.0	231.0	76.0
706	2020-04-29T00:00:00.000	7209.0	1736.0	308.0	77.0
707	2020-05-06T00:00:00.000	9707.0	2498.0	426.0	118.0
708	2020-05-13T00:00:00.000	12216.0	2509.0	595.0	169.0
709	2020-05-20T00:00:00.000	14906.0	2690.0	747.0	152.0
710	2020-05-27T00:00:00.000	17319.0	2413.0	834.0	87.0
711	2020-06-03T00:00:00.000	22354.0	5035.0	983.0	149.0
712	2020-06-10T00:00:00.000	29852.0	7498.0	1100.0	117.0
713	2020-06-17T00:00:00.000	40937.0	11085.0	1248.0	148.0
714	2020-06-24T00:00:00.000	60190.0	19253.0	1466.0	218.0
715	2020-07-01T00:00:00.000	84115.0	23925.0	1724.0	258.0
716	2020-07-08T00:00:00.000	108614.0	24499.0	1961.0	237.0
717	2020-07-15T00:00:00.000	131354.0	22740.0	2433.0	472.0
718	2020-07-22T00:00:00.000	150618.0	19264.0	2974.0	541.0
719	2020-07-29T00:00:00.000	168275.0	17657.0	3453.0	479.0
720	2020-08-05T00:00:00.000	182210.0	13935.0	3931.0	478.0
721	2020-08-12T00:00:00.000	189443.0	7233.0	4346.0	415.0
722	2020-08-19T00:00:00.000	195560.0	6117.0	4632.0	286.0
723	2020-08-26T00:00:00.000	199469.0	3909.0	4895.0	263.0
724	2020-09-02T00:00:00.000	202861.0	3392.0	5067.0	172.0
725	2020-09-09T00:00:00.000	206541.0	3680.0	5251.0	184.0
726	2020-09-16T00:00:00.000	209907.0	3366.0	5370.0	119.0
727	2020-09-23T00:00:00.000	215288.0	5381.0	5527.0	157.0
728	2020-09-30T00:00:00.000	218508.0	3220.0	5653.0	126.0
729	2020-10-07T00:00:00.000	222541.0	4033.0	5733.0	80.0
730	2020-10-14T00:00:00.000	227637.0	5096.0	5772.0	39.0
731	2020-10-21T00:00:00.000	233912.0	6275.0	5854.0	82.0
732	2020-10-28T00:00:00.000	241165.0	7253.0	5905.0	51.0
733	2020-11-04T00:00:00.000	250633.0	9468.0	6059.0	154.0
734	2020-11-11T00:00:00.000	265163.0	14530.0	6228.0	169.0
735	2020-11-18T00:00:00.000	283102.0	17939.0	6365.0	137.0
736	2020-11-25T00:00:00.000	310850.0	27748.0	6524.0	159.0
737	2020-12-02T00:00:00.000	340979.0	30129.0	6739.0	215.0

738	2020-12-09T00:00:00.000	382601.0	41622.0	7081.0	342.0
739	2020-12-16T00:00:00.000	429285.0	46684.0	7530.0	449.0
740	2020-12-23T00:00:00.000	473273.0	43988.0	8180.0	650.0
741	2020-12-30T00:00:00.000	512489.0	39216.0	8718.0	538.0
742	2021-01-06T00:00:00.000	574680.0	62191.0	9444.0	726.0
743	2021-01-13T00:00:00.000	641729.0	67049.0	10673.0	1229.0
744	2021-01-20T00:00:00.000	690544.0	48815.0	11528.0	855.0
745	2021-01-27T00:00:00.000	738561.0	48017.0	12643.0	1115.0
746	2021-02-03T00:00:00.000	767379.0	28818.0	13576.0	933.0
747	2021-02-10T00:00:00.000	789262.0	21883.0	14462.0	886.0
748	2021-02-17T00:00:00.000	801055.0	11793.0	15063.0	601.0
749	2021-02-24T00:00:00.000	811968.0	10913.0	15693.0	630.0
750	2021-03-03T00:00:00.000	819816.0	7848.0	16091.0	398.0
751	2021-03-10T00:00:00.000	828468.0	8652.0	16405.0	314.0
752	2021-03-17T00:00:00.000	833859.0	5391.0	16585.0	180.0
753	2021-03-24T00:00:00.000	837828.0	3969.0	16842.0	257.0
754	2021-03-31T00:00:00.000	841807.0	3979.0	16954.0	112.0
755	2021-04-07T00:00:00.000	846231.0	4424.0	17024.0	70.0
756	2021-04-14T00:00:00.000	851265.0	5034.0	17106.0	82.0
757	2021-04-21T00:00:00.000	855804.0	4539.0	17196.0	90.0
758	2021-04-28T00:00:00.000	860772.0	4968.0	17281.0	85.0
759	2021-05-05T00:00:00.000	866008.0	5236.0	17357.0	76.0
760	2021-05-12T00:00:00.000	870611.0	4603.0	17427.0	70.0
761	2021-05-19T00:00:00.000	874562.0	3951.0	17490.0	63.0
762	2021-05-26T00:00:00.000	878312.0	3750.0	17570.0	80.0
763	2021-06-02T00:00:00.000	882180.0	3868.0	17642.0	72.0
764	2021-06-09T00:00:00.000	885002.0	2822.0	17707.0	65.0
765	2021-06-16T00:00:00.000	887973.0	2971.0	17782.0	75.0
766	2021-06-23T00:00:00.000	891025.0	3052.0	17868.0	86.0
767	2021-06-30T00:00:00.000	894872.0	3847.0	17936.0	68.0
768	2021-07-07T00:00:00.000	898283.0	3411.0	18004.0	68.0
769	2021-07-14T00:00:00.000	903851.0	5568.0	18075.0	71.0
770	2021-07-21T00:00:00.000	911462.0	7611.0	18126.0	51.0
771	2021-07-28T00:00:00.000	921445.0	9983.0	18186.0	60.0
772	2021-08-04T00:00:00.000	935647.0	14202.0	18290.0	104.0
773	2021-08-11T00:00:00.000	952797.0	17150.0	18406.0	116.0
774	2021-08-18T00:00:00.000	972925.0	20128.0	18504.0	98.0
775	2021-08-25T00:00:00.000	991309.0	18384.0	18638.0	134.0
776	2021-09-01T00:00:00.000	1016663.0	25354.0	18853.0	215.0
777	2021-09-08T00:00:00.000	1037013.0	20350.0	19076.0	223.0
778	2021-09-15T00:00:00.000	1055919.0	18906.0	19330.0	254.0
779	2021-09-22T00:00:00.000	1072863.0	16944.0	19650.0	320.0
780	2021-09-29T00:00:00.000	1090839.0	17976.0	19941.0	291.0

781	2021-10-06T00:00:00.000	1108830.0	17991.0	20218.0	277.0
782	2021-10-13T00:00:00.000	1124709.0	15879.0	20438.0	220.0
783	2021-10-20T00:00:00.000	1139627.0	14918.0	20727.0	289.0
784	2021-10-27T00:00:00.000	1156731.0	17104.0	21045.0	318.0
785	2021-11-03T00:00:00.000	1175520.0	18789.0	21273.0	228.0
786	2021-11-10T00:00:00.000	1199277.0	23757.0	21527.0	254.0
787	2021-11-17T00:00:00.000	1223892.0	24615.0	21754.0	227.0
788	2021-11-24T00:00:00.000	1252248.0	28356.0	22098.0	344.0
789	2021-12-01T00:00:00.000	1272943.0	20695.0	22350.0	252.0
790	2021-12-08T00:00:00.000	1301598.0	28655.0	22779.0	429.0
791	2021-12-15T00:00:00.000	1323997.0	22399.0	23324.0	545.0
792	2021-12-22T00:00:00.000	1344183.0	20186.0	23816.0	492.0
793	2021-12-29T00:00:00.000	1368080.0	23897.0	24171.0	355.0
794	2022-01-05T00:00:00.000	1419562.0	51482.0	24570.0	399.0
795	2022-01-12T00:00:00.000	1524363.0	104801.0	24993.0	423.0
796	2022-01-19T00:00:00.000	1666191.0	141828.0	25416.0	423.0
797	2022-01-26T00:00:00.000	1799503.0	133312.0	25899.0	483.0
798	2022-02-02T00:00:00.000	1886541.0	87038.0	26369.0	470.0
799	2022-02-09T00:00:00.000	1931642.0	45101.0	26856.0	487.0
800	2022-02-16T00:00:00.000	1957085.0	25443.0	27190.0	334.0
801	2022-02-23T00:00:00.000	1971678.0	14593.0	27705.0	515.0
802	2022-03-02T00:00:00.000	1976890.0	5212.0	27707.0	2.0
803	2022-03-09T00:00:00.000	1987318.0	10428.0	28090.0	383.0
804	2022-03-16T00:00:00.000	1992471.0	5153.0	28546.0	456.0
805	2022-03-23T00:00:00.000	1997037.0	4566.0	28882.0	336.0
806	2022-03-30T00:00:00.000	2007180.0	10143.0	29268.0	386.0
807	2022-04-06T00:00:00.000	2014008.0	6828.0	29681.0	413.0
808	2022-04-13T00:00:00.000	2016729.0	2721.0	29822.0	141.0
809	2022-04-20T00:00:00.000	2019166.0	2437.0	29852.0	30.0
810	2022-04-27T00:00:00.000	2021524.0	2358.0	29951.0	99.0
811	2022-05-04T00:00:00.000	2025435.0	3911.0	30189.0	238.0
812	2022-05-11T00:00:00.000	2030925.0	5490.0	30230.0	41.0
813	2022-05-18T00:00:00.000	2038129.0	7204.0	30259.0	29.0
814	2022-05-25T00:00:00.000	2049627.0	11498.0	30299.0	40.0
815	2022-06-01T00:00:00.000	2062669.0	13042.0	30332.0	33.0
816	2022-06-08T00:00:00.000	2077346.0	14677.0	30371.0	39.0
817	2022-06-15T00:00:00.000	2093680.0	16334.0	30399.0	28.0
818	2022-06-22T00:00:00.000	2109053.0	15373.0	30451.0	52.0
819	2022-06-29T00:00:00.000	2125567.0	16514.0	30515.0	64.0
820	2022-07-06T00:00:00.000	2145765.0	20198.0	30572.0	57.0
821	2022-07-13T00:00:00.000	2161045.0	15280.0	30632.0	60.0
822	2022-07-20T00:00:00.000	2179180.0	18135.0	30698.0	66.0
823	2022-07-27T00:00:00.000	2196429.0	17249.0	30768.0	70.0



824	2022-08-03T00:00:00.000	2211463.0	15034.0	30842.0	74.0
825	2022-08-10T00:00:00.000	2224964.0	13501.0	30901.0	59.0
826	2022-08-17T00:00:00.000	2237208.0	12244.0	30982.0	81.0
827	2022-08-24T00:00:00.000	2245713.0	8505.0	31047.0	65.0
828	2022-08-31T00:00:00.000	2254337.0	8624.0	31114.0	67.0
829	2022-09-07T00:00:00.000	2258018.0	3681.0	31162.0	48.0
830	2022-09-14T00:00:00.000	2264159.0	6141.0	31243.0	81.0
831	2022-09-21T00:00:00.000	2268158.0	3999.0	31325.0	82.0
832	2022-09-28T00:00:00.000	2271560.0	3402.0	31369.0	44.0
833	2022-10-05T00:00:00.000	2275235.0	3675.0	31405.0	36.0
834	2022-10-12T00:00:00.000	2277635.0	2400.0	31454.0	49.0
835	2022-10-19T00:00:00.000	2283073.0	5438.0	31514.0	60.0
836	2022-10-26T00:00:00.000	2287886.0	4813.0	31548.0	34.0
837	2022-11-02T00:00:00.000	2293015.0	5129.0	31573.0	25.0
838	2022-11-09T00:00:00.000	2300375.0	7360.0	31613.0	40.0
839	2022-11-16T00:00:00.000	2311150.0	10775.0	31646.0	33.0
840	2022-11-23T00:00:00.000	2324560.0	13410.0	31709.0	63.0
841	2022-11-30T00:00:00.000	2337547.0	12987.0	31751.0	42.0
842	2022-12-07T00:00:00.000	2353530.0	15983.0	31822.0	71.0
843	2022-12-14T00:00:00.000	2365080.0	11550.0	31929.0	107.0
844	2022-12-21T00:00:00.000	2373361.0	8281.0	32038.0	109.0
845	2022-12-28T00:00:00.000	2378334.0	4973.0	32182.0	144.0
846	2023-01-04T00:00:00.000	2384521.0	6187.0	32311.0	129.0
847	2023-01-11T00:00:00.000	2391890.0	7369.0	32503.0	192.0
848	2023-01-18T00:00:00.000	2394646.0	2756.0	32631.0	128.0
849	2023-01-25T00:00:00.000	2398200.0	3554.0	32775.0	144.0
850	2023-02-01T00:00:00.000	2401287.0	3087.0	32882.0	107.0
851	2023-02-08T00:00:00.000	2404386.0	3099.0	32936.0	54.0
852	2023-02-15T00:00:00.000	2407765.0	3379.0	33003.0	67.0
853	2021-09-08T00:00:00.000	732154.0	27734.0	12487.0	195.0
854	2023-03-01T00:00:00.000	2440294.0	5663.0	33076.0	34.0
855	2023-03-08T00:00:00.000	2443514.0	3220.0	33102.0	26.0
856	2023-03-15T00:00:00.000	2448406.0	4892.0	33158.0	56.0
857	2023-03-22T00:00:00.000	2451057.0	2651.0	33190.0	32.0
858	2023-03-29T00:00:00.000	2454320.0	3263.0	33225.0	35.0
859	2023-04-05T00:00:00.000	2457251.0	2931.0	33258.0	33.0
860	2023-04-12T00:00:00.000	2460926.0	3675.0	33293.0	35.0
861	2023-04-19T00:00:00.000	2464334.0	3408.0	33372.0	79.0
862	2023-04-26T00:00:00.000	2468340.0	4006.0	33395.0	23.0
863	2023-05-03T00:00:00.000	2471546.0	3206.0	33417.0	22.0
864	2023-05-10T00:00:00.000	2474154.0	2608.0	33451.0	34.0
865	2020-01-22T00:00:00.000	0.0	0.0	0.0	0.0
866	2020-01-29T00:00:00.000	2.0	2.0	0.0	0.0

867	2020-02-05T00:00:00.000	8.0	6.0	0.0	0.0
868	2020-02-12T00:00:00.000	16.0	8.0	0.0	0.0
869	2020-02-19T00:00:00.000	30.0	14.0	0.0	0.0
870	2020-02-26T00:00:00.000	52.0	22.0	0.0	0.0
871	2020-03-04T00:00:00.000	80.0	28.0	1.0	1.0
872	2020-03-11T00:00:00.000	220.0	140.0	3.0	2.0
873	2020-03-18T00:00:00.000	688.0	468.0	15.0	12.0
874	2020-03-25T00:00:00.000	3000.0	2312.0	64.0	49.0
875	2020-04-01T00:00:00.000	8169.0	5169.0	172.0	108.0
876	2020-04-08T00:00:00.000	17141.0	8972.0	442.0	270.0
877	2020-04-15T00:00:00.000	24509.0	7368.0	788.0	346.0
878	2020-04-22T00:00:00.000	35489.0	10980.0	1295.0	507.0
879	2020-04-29T00:00:00.000	46601.0	11112.0	1811.0	516.0
880	2020-05-06T00:00:00.000	58944.0	12343.0	2327.0	516.0
881	2020-05-13T00:00:00.000	71209.0	12265.0	2828.0	501.0
882	2020-05-20T00:00:00.000	84248.0	13039.0	3364.0	536.0
883	2020-05-27T00:00:00.000	99217.0	14969.0	3706.0	342.0
884	2020-06-03T00:00:00.000	117953.0	18736.0	4231.0	525.0
885	2020-06-10T00:00:00.000	136486.0	18533.0	4667.0	436.0
886	2020-06-17T00:00:00.000	157370.0	20884.0	5064.0	397.0
887	2020-06-24T00:00:00.000	190663.0	33293.0	5499.0	435.0
888	2020-07-01T00:00:00.000	233232.0	42569.0	5978.0	479.0
889	2020-07-08T00:00:00.000	290315.0	57083.0	6475.0	497.0
890	2020-07-15T00:00:00.000	348837.0	58522.0	7164.0	689.0
891	2020-07-22T00:00:00.000	415355.0	66518.0	7792.0	628.0
892	2020-07-29T00:00:00.000	477548.0	62193.0	8593.0	801.0
893	2020-08-05T00:00:00.000	527507.0	49959.0	9519.0	926.0
894	2020-08-12T00:00:00.000	589347.0	61840.0	10489.0	970.0
895	2020-08-19T00:00:00.000	642733.0	53386.0	11301.0	812.0
896	2020-08-26T00:00:00.000	683755.0	41022.0	12154.0	853.0
897	2020-09-02T00:00:00.000	717359.0	33604.0	12953.0	799.0
898	2020-09-09T00:00:00.000	745413.0	28054.0	13724.0	771.0
899	2020-09-16T00:00:00.000	769360.0	23947.0	14407.0	683.0
900	2020-09-23T00:00:00.000	794466.0	25106.0	15035.0	628.0
901	2020-09-30T00:00:00.000	818187.0	23721.0	15654.0	619.0
902	2020-10-07T00:00:00.000	839551.0	21364.0	16127.0	473.0
903	2020-10-14T00:00:00.000	864186.0	24635.0	16520.0	393.0
904	2020-10-21T00:00:00.000	887761.0	23575.0	16987.0	467.0
905	2020-10-28T00:00:00.000	919822.0	32061.0	17427.0	440.0
906	2020-11-04T00:00:00.000	952925.0	33103.0	17772.0	345.0
907	2020-11-11T00:00:00.000	999876.0	46951.0	18093.0	321.0
908	2020-11-18T00:00:00.000	1066486.0	66610.0	18386.0	293.0
909	2020-11-25T00:00:00.000	1168074.0	101588.0	18915.0	529.0

910	2020-12-02T00:00:00.000	1276985.0	108911.0	19368.0	453.0
911	2020-12-09T00:00:00.000	1461837.0	184852.0	20253.0	885.0
912	2020-12-16T00:00:00.000	1725293.0	263456.0	21409.0	1156.0
913	2020-12-23T00:00:00.000	2030639.0	305346.0	23096.0	1687.0
914	2020-12-30T00:00:00.000	2302033.0	271394.0	24738.0	1642.0
915	2021-01-06T00:00:00.000	2582223.0	280190.0	27223.0	2485.0
916	2021-01-13T00:00:00.000	2893938.0	311715.0	30641.0	3418.0
917	2021-01-20T00:00:00.000	3141655.0	247717.0	33690.0	3049.0
918	2021-01-27T00:00:00.000	3299740.0	158085.0	37317.0	3627.0
919	2021-02-03T00:00:00.000	3416533.0	116793.0	40982.0	3665.0
920	2021-02-10T00:00:00.000	3502301.0	85768.0	44372.0	3390.0
921	2021-02-17T00:00:00.000	3558160.0	55859.0	46996.0	2624.0
922	2021-02-24T00:00:00.000	3599728.0	41568.0	49366.0	2370.0
923	2021-03-03T00:00:00.000	3631137.0	31409.0	52324.0	2958.0
924	2021-03-10T00:00:00.000	3661458.0	30321.0	54217.0	1893.0
925	2021-03-17T00:00:00.000	3681883.0	20425.0	55536.0	1319.0
926	2021-03-24T00:00:00.000	3701825.0	19942.0	56749.0	1213.0
927	2021-03-31T00:00:00.000	3720602.0	18777.0	57823.0	1074.0
928	2021-04-07T00:00:00.000	3739851.0	19249.0	58521.0	698.0
929	2021-04-14T00:00:00.000	3762096.0	22245.0	59210.0	689.0
930	2021-04-21T00:00:00.000	3778861.0	16765.0	59704.0	494.0
931	2021-04-28T00:00:00.000	3792591.0	13730.0	60046.0	342.0
932	2021-05-05T00:00:00.000	3805641.0	13050.0	60595.0	549.0
933	2021-05-12T00:00:00.000	3818032.0	12391.0	60995.0	400.0
934	2021-05-19T00:00:00.000	3827885.0	9853.0	61273.0	278.0
935	2021-05-26T00:00:00.000	3836560.0	8675.0	61494.0	221.0
936	2021-06-02T00:00:00.000	3847022.0	10462.0	61730.0	236.0
937	2021-06-09T00:00:00.000	3853677.0	6655.0	62039.0	309.0
938	2021-06-16T00:00:00.000	3859768.0	6091.0	62169.0	130.0
939	2021-06-23T00:00:00.000	3866342.0	6574.0	62384.0	215.0
940	2021-06-30T00:00:00.000	3875227.0	8885.0	62685.0	301.0
941	2021-07-07T00:00:00.000	3886793.0	11566.0	62917.0	232.0
942	2021-07-14T00:00:00.000	3908447.0	21654.0	63168.0	251.0
943	2021-07-21T00:00:00.000	3944648.0	36201.0	63339.0	171.0
944	2021-07-28T00:00:00.000	3998313.0	53665.0	63516.0	177.0
945	2021-08-04T00:00:00.000	4070342.0	72029.0	63729.0	213.0
946	2021-08-11T00:00:00.000	4156032.0	85690.0	63975.0	246.0
947	2021-08-18T00:00:00.000	4250874.0	94842.0	64290.0	315.0
948	2021-08-25T00:00:00.000	4345722.0	94848.0	64801.0	511.0
949	2021-09-01T00:00:00.000	4452698.0	106976.0	65431.0	630.0
950	2021-09-08T00:00:00.000	4527930.0	75232.0	66056.0	625.0
951	2021-09-15T00:00:00.000	4598761.0	70831.0	67000.0	944.0
952	2021-09-22T00:00:00.000	4657394.0	58633.0	67775.0	775.0

953	2021-09-29T00:00:00.000	4709457.0	52063.0	68516.0	741.0
954	2021-10-06T00:00:00.000	4755240.0	45783.0	69190.0	674.0
955	2021-10-13T00:00:00.000	4795035.0	39795.0	69872.0	682.0
956	2021-10-20T00:00:00.000	4832661.0	37626.0	70588.0	716.0
957	2021-10-27T00:00:00.000	4876828.0	44167.0	71159.0	571.0
958	2021-11-03T00:00:00.000	4919896.0	43068.0	71601.0	442.0
959	2021-11-10T00:00:00.000	4963427.0	43531.0	72130.0	529.0
960	2021-11-17T00:00:00.000	5000027.0	36600.0	72708.0	578.0
961	2021-11-24T00:00:00.000	5035140.0	35113.0	73365.0	657.0
962	2021-12-01T00:00:00.000	5067257.0	32117.0	73822.0	457.0
963	2021-12-08T00:00:00.000	5116904.0	49647.0	74349.0	527.0
964	2021-12-15T00:00:00.000	5160774.0	43870.0	74794.0	445.0
965	2021-12-22T00:00:00.000	5226636.0	65862.0	75281.0	487.0
966	2021-12-29T00:00:00.000	5412140.0	185504.0	75628.0	347.0
967	2022-01-05T00:00:00.000	5832584.0	420444.0	76053.0	425.0
968	2022-01-12T00:00:00.000	6623538.0	790954.0	76683.0	630.0
969	2022-01-19T00:00:00.000	7412032.0	788494.0	77357.0	674.0
970	2022-01-26T00:00:00.000	8120396.0	708364.0	78315.0	958.0
971	2022-02-02T00:00:00.000	8516792.0	396396.0	79598.0	1283.0
972	2022-02-09T00:00:00.000	8726658.0	209866.0	80910.0	1312.0
973	2022-02-16T00:00:00.000	8839823.0	113165.0	82380.0	1470.0
974	2022-02-23T00:00:00.000	8914113.0	74290.0	83575.0	1195.0
975	2022-03-02T00:00:00.000	8968139.0	54026.0	84921.0	1346.0
976	2022-03-09T00:00:00.000	9014893.0	46754.0	86176.0	1255.0
977	2022-03-16T00:00:00.000	9034629.0	19736.0	86924.0	748.0
978	2022-03-23T00:00:00.000	9065847.0	31218.0	87584.0	660.0
979	2022-03-30T00:00:00.000	9084830.0	18983.0	88045.0	461.0
980	2022-04-06T00:00:00.000	9105148.0	20318.0	88348.0	303.0
981	2022-04-13T00:00:00.000	9114913.0	9765.0	88551.0	203.0
982	2022-04-20T00:00:00.000	9155058.0	40145.0	89051.0	500.0
983	2022-04-27T00:00:00.000	9198534.0	43476.0	89383.0	332.0
984	2022-05-04T00:00:00.000	9247004.0	48470.0	89691.0	308.0
985	2022-05-11T00:00:00.000	9307414.0	60410.0	89945.0	254.0
986	2022-05-18T00:00:00.000	9385311.0	77897.0	90216.0	271.0
987	2022-05-25T00:00:00.000	9493324.0	108013.0	90486.0	270.0
988	2022-06-01T00:00:00.000	9602502.0	109178.0	90719.0	233.0
989	2022-06-08T00:00:00.000	9717111.0	114609.0	90891.0	172.0
990	2022-06-15T00:00:00.000	9839072.0	121961.0	91104.0	213.0
991	2022-06-22T00:00:00.000	9946098.0	107026.0	91309.0	205.0
992	2022-06-29T00:00:00.000	10076018	129920.0	91514.0	205.0
993	2022-07-06T00:00:00.000	10212490	136472.0	91785.0	271.0
994	2022-07-13T00:00:00.000	10345430	132940.0	92053.0	268.0
995	2022-07-20T00:00:00.000	10495155	149725.0	92290.0	237.0

996	2022-07-27T00:00:00.000	10632003	136848.0	92591.0	301.0
997	2022-08-03T00:00:00.000	10748851	116848.0	92883.0	292.0
998	2022-08-10T00:00:00.000	10844550	95699.0	93175.0	292.0
999	2022-08-17T00:00:00.000	10930234	85684.0	93490.0	315.0
1000	2023-04-26T00:00:00.000	993488.0	713.0	13115.0	39.0

	new_historic_cases	new_historic_deaths
1	23150	0
2	21397	0
3	6800	0
4	5347	0
5	4507	0
6	2239	0
7	949	0
8	347	0
9	0	1109
10	0	557
11	0	469
12	0	299
13	0	273
14	0	62
15	0	44
16	0	5
17	0	5
18	0	1
19	0	0
20	0	0
21	0	0
22	0	0
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We see exactly 1,000 rows. We should be seeing over  $52 \times 3$  rows per state.

11. The reason you see exactly 1,000 rows is because CDC has a default limit. You can change this limit by adding `$limit=10000000000` to the request. Rewrite the previous request to ensure that you receive all the data. Then wrangle the resulting data frame to produce a data frame with columns `state`, `date` (should be the end date) and `cases`. Make sure the cases are numeric and the dates are in `Date` ISO-8601 format.

```
api <- "https://data.cdc.gov/resource/pwn4-m3yp.json"
cases_raw <- request(api) |>
  req_url_query("$limit" = 10000000000) |>
  req_perform() |>
  resp_body_json(simplifyDataFrame = TRUE)
cases <- as_tibble(cases_raw) |>
  transmute(
    state_name = state,
    date = ymd_hms(end_date, quiet = TRUE) |> as_date(),
    cases = parse_number(new_cases)
  ) |>
  filter(!is.na(date), !is.na(cases))
cases
```

```
# A tibble: 10,380 x 3
  state_name date      cases
```

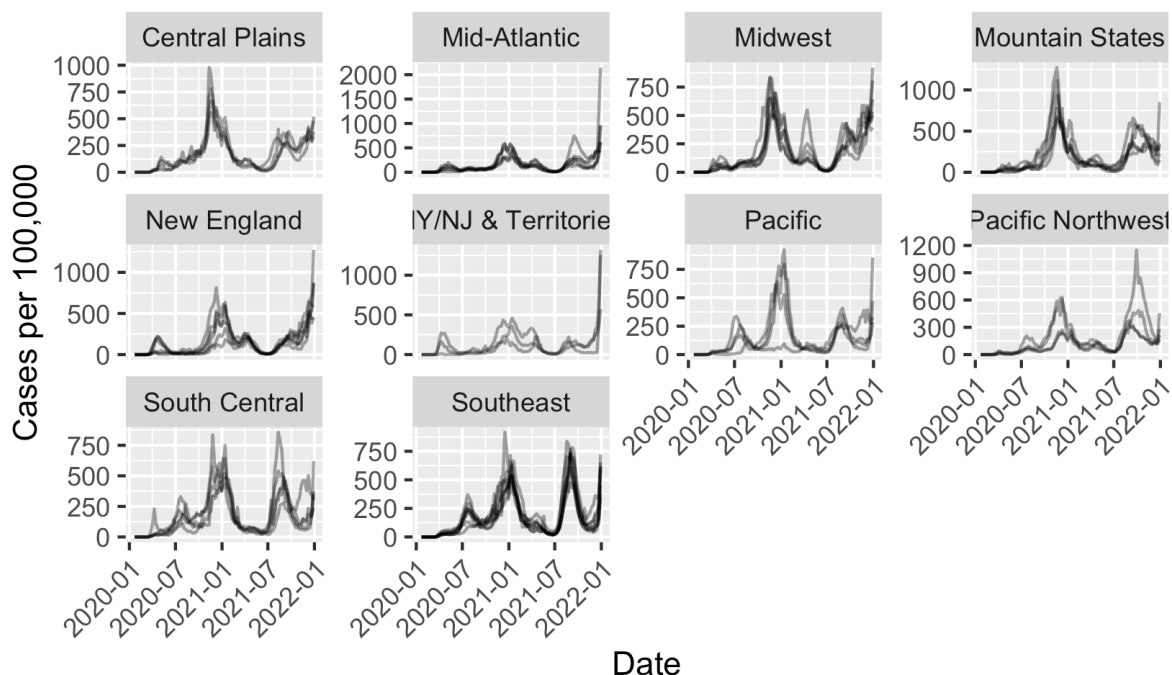
	<chr>	<date>	<dbl>
1	AZ	2023-02-22	3716
2	LA	2022-12-21	4041
3	GA	2023-02-22	5298
4	LA	2023-03-29	2203
5	LA	2023-02-01	5725
6	LA	2023-03-22	1961
7	LA	2023-04-26	1884
8	NV	2023-03-15	1233
9	FL	2023-05-10	6937
10	NYC	2022-10-26	14590

# i 10,370 more rows

12. For 2020 and 2021, make a time series plot of cases per 100,000 versus time for each state. Stratify the plot by region name. Make sure to label you graph appropriately.

```
cases |>
  transmute(
    state = state_name,
    date = as.Date(date),
    cases = cases
  ) |>
  filter(state %in% c(state.abb, "DC", "PR")) |>
  left_join(
    population |>
      filter(year == 2021) |>
      select(state, region_name, population),
    by = "state"
  ) |>
  mutate(cases_per_100k = 1e5 * cases / population) |>
  filter(format(date, "%Y") %in% c("2020", "2021")) |>
  ggplot(aes(x = date, y = cases_per_100k, group = state)) +
  geom_line(alpha = 0.4) +
  facet_wrap(~ region_name, scales = "free_y") +
  labs(
    x = "Date",
    y = "Cases per 100,000",
    title = "COVID-19 cases per 100k by state (2020-2021)"
  ) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

## COVID-19 cases per 100k by state (2020–2021)



13. The dates in the `cases` dataset are stored as character strings. Use the **lubridate** package to properly parse the `date` column, then create a summary table showing the total COVID-19 cases by month and year for 2020 and 2021. The table should have columns for year, month (as month name), and total cases across all states. Order by year and month. Use the **knitr** package and `kable()` function to display the results as a formatted table.

```
library(lubridate)
library(knitr)
cases |>
  mutate(date = ymd(as.character(date))) |>
  filter(year(date) %in% c(2020, 2021)) |>
  mutate(
    year = year(date),
    month = month(date, label = TRUE, abbr = FALSE)
  ) |>
  group_by(year, month) |>
  summarise(total_cases = sum(cases, na.rm = TRUE), .groups = "drop") |>
  arrange(year, month) |>
  kable()
```

year	month	total_cases
2020	January	11
2020	February	68
2020	March	68245
2020	April	974032
2020	May	650943
2020	June	654904
2020	July	1989512
2020	August	1461283
2020	September	1415438
2020	October	1628598
2020	November	3932646
2020	December	7027128
2021	January	5808063
2021	February	2667511
2021	March	2068441
2021	April	1773591
2021	May	972915
2021	June	493635
2021	July	1137440
2021	August	3572562
2021	September	5027537
2021	October	2356302
2021	November	2322814
2021	December	5615644

14. The following URL provides additional COVID-19 data from the CDC in JSON format:

```
deaths_url <- "https://data.cdc.gov/resource/9bhg-hcku.json"
```

Use **httr2** to download COVID-19 death data from this endpoint. Make sure to remove the default limit to get all available data. Create a clean dataset called **deaths** with columns **state**, **date**, and **deaths** (renamed from the original column name). Ensure dates are in proper Date format and deaths are numeric.

```
deaths_raw <- request(deaths_url) |>
  req_url_query("$limit" = 1000000000) |>
  req_perform() |>
  resp_body_json(simplifyDataFrame = TRUE)
deaths <- as_tibble(deaths_raw) |>
  filter(group == "By Year", sex == "All Sexes", age_group == "All Ages",
  ↪ state != "United States") |>
```

```

transmute(
  state = state,
  date = ymd_hms(end_date) |> as_date(),
  deaths = parse_number(covid_19_deaths)
) |>
filter(!is.na(state), !is.na(date), !is.na(deaths))
deaths

```

```

# A tibble: 212 x 3
  state   date   deaths
  <chr>   <date>   <dbl>
1 Alabama 2020-12-31  6706
2 Alabama 2021-12-31  9719
3 Alabama 2022-12-31  4226
4 Alabama 2023-09-23   869
5 Alaska  2020-12-31   254
6 Alaska  2021-12-31   839
7 Alaska  2022-12-31   330
8 Alaska  2023-09-23    69
9 Arizona 2020-12-31  9321
10 Arizona 2021-12-31 14060
# i 202 more rows

```

15. Using the `deaths` dataset you created, make a bar plot showing the total COVID-19 deaths by state. Show only the top 10 states with the highest death counts. Order the bars from highest to lowest and use appropriate labels and title.

```

deaths |>
  group_by(state) |>
  summarise(total_deaths = sum(deaths, na.rm = TRUE), .groups = "drop") |>
  slice_max(total_deaths, n = 10, with_ties = FALSE) |>
  ggplot(aes(x = reorder(state, total_deaths), y = total_deaths)) +
  geom_col() +
  coord_flip() +
  labs(
    x = NULL,
    y = "Total COVID-19 deaths",
    title = "Top 10 states by total COVID-19 deaths"
  )

```



Top 10 states by total COVID-19 deaths

