

Project 5

Step I: Parsing HTML

Write a code to parse the data on weather in Chicago in November 2017 from the website:

[\[https://code.s3.yandex.net/data-analyst-eng/chicago_weather_2017.html\]](https://code.s3.yandex.net/data-analyst-eng/chicago_weather_2017.html)

The name of the DataFrame should be weather_records, and it should be specified when you search: attrs={"id": "weather_records"} . Print the DataFrame in its entirety.

ANSWER:

```
import requests

from bs4 import BeautifulSoup

import pandas as pd

URL_chicago = 'https://code.s3.yandex.net/data-analyst-eng/chicago_weather_2017.html'

req = requests.get(URL_chicago)

soup=BeautifulSoup(req.text, 'lxml')

##HEADERS

table = soup.find("table",attrs={"id": "weather_records"})

heading_table = []

for row in table.find_all('th'):

    heading_table.append(row.text)

#print(heading_table)

##BODY

content=[]

for row in table.find_all('tr'):

    if not row.find_all('th'):

        content.append([element.text for element in row.find_all('td')])

#print(content)
```

```
weather_records = pd.DataFrame(content, columns=heading_table)

print(weather_records)
```

Step II: Working with Databases

Task I:

1. Print the *company_name* field. Find the number of taxi rides for each taxi company for November 15-16, 2017, name the resulting field *trips_amount*, and print it, too. Sort the results by the *trips_amount* field in descending order.

ANSWER:

PRINT COMPANY_NAME FIELD:

SELECT

company_name

FROM

cabs

COMPANY_NAME
Dispatch Taxi Affiliation
Taxi Affiliation Services
Star North Management LLC
Dispatch Taxi Affiliation
Blue Ribbon Taxi Association Inc.
Blue Ribbon Taxi Association Inc.
Taxi Affiliation Services
Dispatch Taxi Affiliation
Taxi Affiliation Services
Star North Management LLC

COMPANY_NAME

Taxi Affiliation Services

Dispatch Taxi Affiliation

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Dispatch Taxi Affiliation

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

COMPANY_NAME

Chicago Medallion Management

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

Star North Management LLC

Choice Taxi Association

Taxi Affiliation Services

Taxi Affiliation Services

Chicago Medallion Leasing INC

Star North Management LLC

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

Star North Management LLC

Dispatch Taxi Affiliation

Choice Taxi Association

Star North Management LLC

COMPANY_NAME

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Star North Management LLC

Chicago Medallion Management

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

Taxi Affiliation Services

Star North Management LLC

Top Cab Affiliation

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

Taxi Affiliation Services

Star North Management LLC

Star North Management LLC

COMPANY_NAME

Taxi Affiliation Services

Dispatch Taxi Affiliation

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Star North Management LLC

Star North Management LLC

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Dispatch Taxi Affiliation

Taxi Affiliation Services

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Taxi Affiliation Services

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

COMPANY_NAME

Dispatch Taxi Affiliation

Taxi Affiliation Services

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Dispatch Taxi Affiliation

Chicago Medallion Leasing INC

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Top Cab Affiliation

Dispatch Taxi Affiliation

Star North Management LLC

Dispatch Taxi Affiliation

Blue Ribbon Taxi Association Inc.

Star North Management LLC

COMPANY_NAME

Star North Management LLC

Taxi Affiliation Services

Dispatch Taxi Affiliation

Blue Ribbon Taxi Association Inc.

Star North Management LLC

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Star North Management LLC

Taxi Affiliation Services

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Star North Management LLC

COMPANY_NAME

Star North Management LLC

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

4623 - 27290 Jay Kim

Star North Management LLC

KOAM Taxi Association

Taxi Affiliation Services

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Star North Management LLC

Dispatch Taxi Affiliation

Star North Management LLC

KOAM Taxi Association

Star North Management LLC

Chicago Independents

Taxi Affiliation Services

KOAM Taxi Association

COMPANY_NAME

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Taxi Affiliation Services

Dispatch Taxi Affiliation

Dispatch Taxi Affiliation

Taxi Affiliation Services

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Top Cab Affiliation

Choice Taxi Association

Dispatch Taxi Affiliation

Star North Management LLC

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

COMPANY_NAME

Star North Management LLC

Dispatch Taxi Affiliation

Taxi Affiliation Services

Star North Management LLC

Choice Taxi Association

Top Cab Affiliation

Star North Management LLC

Taxi Affiliation Services

Chicago Medallion Leasing INC

Taxi Affiliation Services

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Choice Taxi Association

Taxi Affiliation Services

Choice Taxi Association

Star North Management LLC

Star North Management LLC

Taxi Affiliation Services

Top Cab Affiliation

Taxi Affiliation Services

COMPANY_NAME

Top Cab Affiliation

Star North Management LLC

Taxi Affiliation Services

Star North Management LLC

Taxi Affiliation Services

Blue Ribbon Taxi Association Inc.

Taxi Affiliation Services

Taxi Affiliation Services

Taxi Affiliation Services

Star North Management LLC

Check

PART II:

SELECT

cabs.company_name AS company_name,

COUNT (distinct trip_id) AS trips_amount

FROM

trips

INNER JOIN cabs ON cabs.cab_id = trips.cab_id

WHERE

CAST(trips.start_ts:: date AS date) BETWEEN '2017-11-15' AND '2017-11-16'

GROUP BY

company_name

ORDER BY

trips_amount DESC;

COMPANY_NAME	TRIPS_AMOUNT
Flash Cab	19558
Taxi Affiliation Services	11422
Medallion Leasin	10367
Yellow Cab	9888
Taxi Affiliation Service Yellow	9299
Chicago Carriage Cab Corp	9181
City Service	8448
Sun Taxi	7701
Star North Management LLC	7455
Blue Ribbon Taxi Association Inc.	5953
Choice Taxi Association	5015
Globe Taxi	4383
Dispatch Taxi Affiliation	3355
Nova Taxi Affiliation Llc	3175
Patriot Taxi DbA Peace Taxi Associat	2235

COMPANY_NAME	TRIPS_AMOUNT
Checker Taxi Affiliation	2216
Blue Diamond	2070
Chicago Medallion Management	1955
24 Seven Taxi	1775
Chicago Medallion Leasing INC	1607
Checker Taxi	1486
American United	1404
Chicago Independents	1296
KOAM Taxi Association	1259
Chicago Taxicab	1014
Top Cab Affiliation	978
Gold Coast Taxi	428
Service Taxi Association	402
5 Star Taxi	310
303 Taxi	250
Setare Inc	230
American United Taxi Affiliation	210
Leonard Cab Co	147
Metro Jet Taxi A	146
Norshore Cab	127

COMPANY_NAME	TRIPS_AMOUNT
6742 - 83735 Tasha ride inc	39
3591 - 63480 Chuks Cab	37
1469 - 64126 Omar Jada	36
6743 - 78771 Luhak Corp	33
0118 - 42111 Godfrey S.Awir	33
6574 - Babylon Express Inc.	31
Chicago Star Taxicab	29
1085 - 72312 N and W Cab Co	29
2809 - 95474 C & D Cab Co Inc.	29
2092 - 61288 Sbeih company	27
3011 - 66308 JBL Cab Inc.	25
3620 - 52292 David K. Cab Corp.	21
4615 - 83503 Tyrone Henderson	21
3623 - 72222 Arrington Enterprises	20
5074 - 54002 Ahzmi Inc	16
2823 - 73307 Lee Express Inc	15
4623 - 27290 Jay Kim	15
3721 - Santamaria Express, Alvaro Santamaria	14
5006 - 39261 Salifu Bawa	14
2192 - 73487 Zeymane Corp	14

COMPANY_NAME	TRIPS_AMOUNT
6057 - 24657 Richard Addo	13
5997 - 65283 AW Services Inc.	12
Metro Group	11
5062 - 34841 Sam Mestas	8
4053 - 40193 Adwar H. Nikola	7
2733 - 74600 Benny Jona	7
5874 - 73628 Sergey Cab Corp.	5
2241 - 44667 - Felman Corp, Manuel Alonso	3
3556 - 36214 RC Andrews Cab	2

Next

Task II:

2. Find the number of rides for every taxi company whose name contains the words "Yellow" or "Blue" for November 1-7, 2017. Name the resulting variable *trips_amount*. Group the results by the *company_name* field.

ANSWER:

SELECT

cabs.company_name AS company_name,
COUNT (distinct trip_id) AS trips_amount

FROM

trips

INNER JOIN cabs ON cabs.cab_id = trips.cab_id

WHERE

((company_name LIKE '%Yellow%') OR (company_name LIKE '%Blue%')) AND (CAST(trips.start_ts::date AS date) BETWEEN '2017-11-1' AND '2017-11-07')

GROUP BY

company_name

COMPANY_NAME	TRIPS_AMOUNT
Blue Diamond	6764
Blue Ribbon Taxi Association Inc.	17675
Taxi Affiliation Service Yellow	29213
Yellow Cab	33668

Next

Task III:

3. For November 1-7, 2017, the most popular taxi companies were Flash Cab and Taxi Affiliation Services. Find the number of rides for these two companies and name the resulting variable *trips_amount*. Join the rides for all other companies in the group "Other." Group the data by taxi company names. Name the field with taxi company names *company*. Sort the result in descending order by *trips_amount*.

ANSWER:

SELECT

CASE

WHEN (cabs.company_name LIKE '%Flash Cab%') THEN cabs.company_name

WHEN (cabs.company_name LIKE '%Taxi Affiliation Services%') THEN cabs.company_name

```

    ELSE 'Other'

END AS company,

COUNT (distinct trip_id) AS trips_amount

FROM

trips

INNER JOIN cabs ON cabs.cab_id = trips.cab_id

WHERE

    CAST(trips.start_ts:: date AS date) BETWEEN '2017-11-1' AND '2017-11-07'

GROUP BY

    company

ORDER BY

    trips_amount DESC

```

COMPANY	TRIPS_AMOUNT
Other	335771
Flash Cab	64084
Taxi Affiliation Services	37583

Task IV:

4. Retrieve the identifiers of the O'Hare and Loop neighborhoods from the *neighborhoods* table.

ANSWER:

```

SELECT

    neighborhoods.neighborhood_id as neighborhood_id,

    neighborhoods.name as name

```

FROM

neighborhoods

WHERE

name LIKE '%Hare' OR name LIKE 'Loop'

NEIGHBORHOOD_ID	NAME
50	Loop
63	O'Hare

Task V:

5. For each hour, retrieve the weather condition records from the *weather_records* table. Using the CASE operator, break all hours into two groups: Bad if the *description* field contains the words rain or storm, and Good for others. Name the resulting field *weather_conditions*. The final table must include two fields: date and hour (*ts*) and *weather_conditions*.

ANSWER:

SELECT

DATE_TRUNC('hour', weather_records.ts) as TS,

CASE

WHEN (weather_records.description LIKE '%rain%') THEN 'Bad'

WHEN (weather_records.description LIKE '%storm%') THEN 'Bad'

ELSE 'Good'

END AS weather_conditions

FROM

weather_records

TS	WEATHER_CONDITIONS
2017-11-01 00:00:00	Good
2017-11-01 01:00:00	Good
2017-11-01 02:00:00	Good
2017-11-01 03:00:00	Good
2017-11-01 04:00:00	Good
2017-11-01 05:00:00	Good
2017-11-01 06:00:00	Good
2017-11-01 07:00:00	Good
2017-11-01 08:00:00	Good
2017-11-01 09:00:00	Good
2017-11-01 10:00:00	Good
2017-11-01 11:00:00	Good
2017-11-01 12:00:00	Good
2017-11-01 13:00:00	Good
2017-11-01 14:00:00	Good
2017-11-01 15:00:00	Good
2017-11-01 16:00:00	Good
2017-11-01 17:00:00	Good
2017-11-01 18:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-01 19:00:00	Good
2017-11-01 20:00:00	Good
2017-11-01 21:00:00	Good
2017-11-01 22:00:00	Good
2017-11-01 23:00:00	Good
2017-11-02 00:00:00	Good
2017-11-02 01:00:00	Good
2017-11-02 02:00:00	Good
2017-11-02 03:00:00	Bad
2017-11-02 04:00:00	Bad
2017-11-02 05:00:00	Bad
2017-11-02 06:00:00	Bad
2017-11-02 07:00:00	Bad
2017-11-02 08:00:00	Good
2017-11-02 09:00:00	Good
2017-11-02 10:00:00	Good
2017-11-02 11:00:00	Good
2017-11-02 12:00:00	Bad
2017-11-02 13:00:00	Good
2017-11-02 14:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-02 15:00:00	Good
2017-11-02 16:00:00	Good
2017-11-02 17:00:00	Good
2017-11-02 18:00:00	Good
2017-11-02 19:00:00	Good
2017-11-02 20:00:00	Bad
2017-11-02 21:00:00	Bad
2017-11-02 22:00:00	Good
2017-11-02 23:00:00	Good
2017-11-03 00:00:00	Bad
2017-11-03 01:00:00	Good
2017-11-03 02:00:00	Good
2017-11-03 03:00:00	Good
2017-11-03 04:00:00	Good
2017-11-03 05:00:00	Good
2017-11-03 06:00:00	Good
2017-11-03 07:00:00	Good
2017-11-03 08:00:00	Good
2017-11-03 09:00:00	Good
2017-11-03 10:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-03 11:00:00	Good
2017-11-03 12:00:00	Good
2017-11-03 13:00:00	Good
2017-11-03 14:00:00	Good
2017-11-03 15:00:00	Good
2017-11-03 16:00:00	Good
2017-11-03 17:00:00	Good
2017-11-03 18:00:00	Good
2017-11-03 19:00:00	Good
2017-11-03 20:00:00	Good
2017-11-03 21:00:00	Good
2017-11-03 22:00:00	Good
2017-11-03 23:00:00	Good
2017-11-04 00:00:00	Good
2017-11-04 01:00:00	Good
2017-11-04 02:00:00	Good
2017-11-04 03:00:00	Good
2017-11-04 04:00:00	Good
2017-11-04 05:00:00	Good
2017-11-04 06:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-04 07:00:00	Good
2017-11-04 08:00:00	Good
2017-11-04 09:00:00	Good
2017-11-04 10:00:00	Good
2017-11-04 11:00:00	Good
2017-11-04 12:00:00	Good
2017-11-04 13:00:00	Good
2017-11-04 14:00:00	Good
2017-11-04 15:00:00	Good
2017-11-04 16:00:00	Bad
2017-11-04 17:00:00	Bad
2017-11-04 18:00:00	Bad
2017-11-04 19:00:00	Good
2017-11-04 20:00:00	Good
2017-11-04 21:00:00	Good
2017-11-04 22:00:00	Good
2017-11-04 23:00:00	Good
2017-11-05 00:00:00	Good
2017-11-05 01:00:00	Bad
2017-11-05 02:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-05 03:00:00	Good
2017-11-05 04:00:00	Bad
2017-11-05 05:00:00	Bad
2017-11-05 06:00:00	Good
2017-11-05 07:00:00	Good
2017-11-05 08:00:00	Good
2017-11-05 09:00:00	Good
2017-11-05 10:00:00	Good
2017-11-05 11:00:00	Good
2017-11-05 12:00:00	Good
2017-11-05 13:00:00	Good
2017-11-05 14:00:00	Bad
2017-11-05 15:00:00	Good
2017-11-05 16:00:00	Bad
2017-11-05 17:00:00	Good
2017-11-05 18:00:00	Bad
2017-11-05 19:00:00	Bad
2017-11-05 20:00:00	Bad
2017-11-05 21:00:00	Good
2017-11-05 22:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-05 23:00:00	Good
2017-11-06 00:00:00	Good
2017-11-06 01:00:00	Good
2017-11-06 02:00:00	Good
2017-11-06 03:00:00	Good
2017-11-06 04:00:00	Good
2017-11-06 05:00:00	Good
2017-11-06 06:00:00	Good
2017-11-06 07:00:00	Good
2017-11-06 08:00:00	Good
2017-11-06 09:00:00	Good
2017-11-06 10:00:00	Good
2017-11-06 11:00:00	Good
2017-11-06 12:00:00	Good
2017-11-06 13:00:00	Good
2017-11-06 14:00:00	Good
2017-11-06 15:00:00	Good
2017-11-06 16:00:00	Good
2017-11-06 17:00:00	Good
2017-11-06 18:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-06 19:00:00	Good
2017-11-06 20:00:00	Good
2017-11-06 21:00:00	Good
2017-11-06 22:00:00	Good
2017-11-06 23:00:00	Good
2017-11-07 00:00:00	Good
2017-11-07 01:00:00	Good
2017-11-07 02:00:00	Good
2017-11-07 03:00:00	Good
2017-11-07 04:00:00	Good
2017-11-07 05:00:00	Good
2017-11-07 06:00:00	Good
2017-11-07 07:00:00	Good
2017-11-07 08:00:00	Good
2017-11-07 09:00:00	Good
2017-11-07 10:00:00	Good
2017-11-07 11:00:00	Good
2017-11-07 12:00:00	Good
2017-11-07 13:00:00	Good
2017-11-07 14:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-07 15:00:00	Good
2017-11-07 16:00:00	Good
2017-11-07 17:00:00	Good
2017-11-07 18:00:00	Good
2017-11-07 19:00:00	Good
2017-11-07 20:00:00	Good
2017-11-07 21:00:00	Good
2017-11-07 22:00:00	Good
2017-11-07 23:00:00	Bad
2017-11-08 00:00:00	Bad
2017-11-08 01:00:00	Good
2017-11-08 02:00:00	Good
2017-11-08 03:00:00	Good
2017-11-08 04:00:00	Good
2017-11-08 05:00:00	Good
2017-11-08 06:00:00	Good
2017-11-08 07:00:00	Good
2017-11-08 08:00:00	Good
2017-11-08 09:00:00	Good
2017-11-08 10:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-08 11:00:00	Good
2017-11-08 12:00:00	Good
2017-11-08 13:00:00	Good
2017-11-08 14:00:00	Good
2017-11-08 15:00:00	Good
2017-11-08 16:00:00	Good
2017-11-08 17:00:00	Good
2017-11-08 18:00:00	Good
2017-11-08 19:00:00	Good
2017-11-08 20:00:00	Good
2017-11-08 21:00:00	Good
2017-11-08 22:00:00	Good
2017-11-08 23:00:00	Good
2017-11-09 00:00:00	Good
2017-11-09 01:00:00	Good
2017-11-09 02:00:00	Good
2017-11-09 03:00:00	Good
2017-11-09 04:00:00	Good
2017-11-09 05:00:00	Good
2017-11-09 06:00:00	Good

TS	WEATHER_CONDITIONS
2017-11-09 07:00:00	Good
Next	

Task VI:

6. Retrieve from the *trips* table all the rides that started in the Loop (*neighborhood_id*: 50) on a Saturday and ended at O'Hare (*neighborhood_id*: 63). Get the weather conditions for each ride. Use the method you applied in the previous task. Also retrieve the duration of each ride. Ignore rides for which data on weather conditions is not available.

The table columns should be in the following order:

- *start_ts*
- *weather_conditions*
- *duration_seconds*

Sort by *trip_id*.

ANSWER:

SELECT

DATE_TRUNC('hour', weather_records.ts) AS start_ts,

CASE

WHEN (weather_records.description LIKE '%rain%') THEN 'Bad'

WHEN (weather_records.description LIKE '%storm%') THEN 'Bad'

ELSE 'Good'

END AS weather_conditions,

trips.duration_seconds AS duration_seconds

FROM

trips

INNER JOIN weather_records ON weather_records.ts = trips.start_ts

WHERE

trips.pickup_location_id = 50 AND trips.dropoff_location_id = 63 AND EXTRACT (DOW from
trips.start_ts) = 6

ORDER BY

trip_id

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-25 12:00:00	Good	1380
2017-11-25 16:00:00	Good	2410
2017-11-25 14:00:00	Good	1920
2017-11-25 12:00:00	Good	1543
2017-11-04 10:00:00	Good	2512
2017-11-11 07:00:00	Good	1440
2017-11-11 04:00:00	Good	1320
2017-11-04 16:00:00	Bad	2969

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-18 11:00:00	Good	2280
2017-11-04 16:00:00	Bad	3120
2017-11-11 15:00:00	Good	4800
2017-11-04 05:00:00	Good	1260
2017-11-11 06:00:00	Good	1346
2017-11-04 04:00:00	Good	1333
2017-11-04 11:00:00	Good	2574
2017-11-11 12:00:00	Good	2441
2017-11-04 14:00:00	Good	3300
2017-11-11 14:00:00	Good	2460
2017-11-11 12:00:00	Good	2040
2017-11-18 06:00:00	Good	1500

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-04 11:00:00	Good	2040
2017-11-11 08:00:00	Good	1470
2017-11-04 08:00:00	Good	1546
2017-11-11 16:00:00	Good	2100
2017-11-25 13:00:00	Good	60
2017-11-04 12:00:00	Good	2640
2017-11-25 10:00:00	Good	1502
2017-11-11 12:00:00	Good	1915
2017-11-04 12:00:00	Good	2769
2017-11-11 13:00:00	Good	2250
2017-11-11 04:00:00	Good	1260
2017-11-18 14:00:00	Good	2826

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-04 14:00:00	Good	3360
2017-11-04 14:00:00	Good	3180
2017-11-25 20:00:00	Good	2100
2017-11-04 10:00:00	Good	1800
2017-11-11 12:00:00	Good	2289
2017-11-04 08:00:00	Good	1494
2017-11-11 11:00:00	Good	1560
2017-11-18 12:00:00	Bad	1980
2017-11-11 13:00:00	Good	2115
2017-11-11 10:00:00	Good	1506
2017-11-04 12:00:00	Good	2580
2017-11-04 17:00:00	Bad	2460

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 09:00:00	Good	1620
2017-11-04 06:00:00	Good	1163
2017-11-04 05:00:00	Good	1533
2017-11-11 04:00:00	Good	1477
2017-11-11 19:00:00	Good	1984
2017-11-04 13:00:00	Good	2940
2017-11-04 07:00:00	Good	1320
2017-11-04 06:00:00	Good	1440
2017-11-11 06:00:00	Good	1260
2017-11-11 08:00:00	Good	1560
2017-11-04 09:00:00	Good	1683
2017-11-11 05:00:00	Good	1343

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-18 06:00:00	Good	1742
2017-11-04 09:00:00	Good	1560
2017-11-11 08:00:00	Good	1358
2017-11-11 12:00:00	Good	1980
2017-11-04 16:00:00	Bad	2760
2017-11-18 12:00:00	Bad	2460
2017-11-18 10:00:00	Bad	1440
2017-11-25 14:00:00	Good	1620
2017-11-11 08:00:00	Good	1415
2017-11-25 05:00:00	Good	1325
2017-11-18 06:00:00	Good	2100
2017-11-11 08:00:00	Good	1320

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 10:00:00	Good	1260
2017-11-11 06:00:00	Good	1260
2017-11-11 08:00:00	Good	1200
2017-11-25 08:00:00	Good	1320
2017-11-11 18:00:00	Good	2280
2017-11-25 10:00:00	Good	1320
2017-11-04 06:00:00	Good	1140
2017-11-11 18:00:00	Good	2520
2017-11-18 16:00:00	Bad	3000
2017-11-11 19:00:00	Good	1920
2017-11-04 18:00:00	Bad	2363
2017-11-04 14:00:00	Good	3084

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 08:00:00	Good	1380
2017-11-11 08:00:00	Good	1380
2017-11-04 09:00:00	Good	1380
2017-11-04 09:00:00	Good	1380
2017-11-11 12:00:00	Good	2213
2017-11-11 08:00:00	Good	1140
2017-11-11 10:00:00	Good	1435
2017-11-04 10:00:00	Good	2460
2017-11-11 07:00:00	Good	1200
2017-11-04 15:00:00	Good	3201
2017-11-11 11:00:00	Good	2074
2017-11-18 11:00:00	Good	2843

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 17:00:00	Good	2426
2017-11-04 09:00:00	Good	1740
2017-11-25 07:00:00	Good	2340
2017-11-18 05:00:00	Good	2075
2017-11-18 07:00:00	Bad	1511
2017-11-11 18:00:00	Good	2220
2017-11-04 10:00:00	Good	2551
2017-11-11 16:00:00	Good	2062
2017-11-04 12:00:00	Good	2999
2017-11-04 08:00:00	Good	1677
2017-11-04 06:00:00	Good	1177
2017-11-11 06:00:00	Good	1475

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-25 08:00:00	Good	1277
2017-11-11 04:00:00	Good	1213
2017-11-18 13:00:00	Bad	4044
2017-11-04 21:00:00	Good	1680
2017-11-04 18:00:00	Bad	1980
2017-11-25 18:00:00	Good	2760
2017-11-11 09:00:00	Good	1380
2017-11-11 07:00:00	Good	1380
2017-11-18 08:00:00	Bad	1320
2017-11-11 16:00:00	Good	2591
2017-11-11 08:00:00	Good	1260
2017-11-11 07:00:00	Good	1380

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 10:00:00	Good	1440
2017-11-04 14:00:00	Good	3240
2017-11-04 16:00:00	Bad	2782
2017-11-04 14:00:00	Good	3120
2017-11-04 19:00:00	Good	1869
2017-11-11 06:00:00	Good	1218
2017-11-11 11:00:00	Good	1620
2017-11-11 10:00:00	Good	1380
2017-11-11 08:00:00	Good	1380
2017-11-11 09:00:00	Good	1380
2017-11-11 07:00:00	Good	1320
2017-11-04 14:00:00	Good	3300

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-04 13:00:00	Good	3060
2017-11-11 13:00:00	Good	2100
2017-11-18 14:00:00	Good	3540
2017-11-11 21:00:00	Good	1920
2017-11-11 17:00:00	Good	2160
2017-11-11 13:00:00	Good	2123
2017-11-11 07:00:00	Good	1384
2017-11-11 10:00:00	Good	1260
2017-11-18 15:00:00	Good	3480
2017-11-11 12:00:00	Good	2071
2017-11-18 13:00:00	Bad	3300
2017-11-25 13:00:00	Good	1560

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-04 12:00:00	Good	2760
2017-11-18 12:00:00	Bad	3024
2017-11-11 11:00:00	Good	1380
2017-11-25 06:00:00	Good	1200
2017-11-11 06:00:00	Good	1667
2017-11-18 18:00:00	Good	2056
2017-11-11 10:00:00	Good	1473
2017-11-11 17:00:00	Good	2460
2017-11-11 10:00:00	Good	1740
2017-11-11 14:00:00	Good	2340
2017-11-04 16:00:00	Bad	3180
2017-11-04 11:00:00	Good	2220

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 12:00:00	Good	2240
2017-11-04 14:00:00	Good	2778
2017-11-18 06:00:00	Good	1420
2017-11-04 14:00:00	Good	3480
2017-11-25 20:00:00	Good	1980
2017-11-18 10:00:00	Bad	2055
2017-11-11 15:00:00	Good	2380
2017-11-04 08:00:00	Good	1539
2017-11-25 10:00:00	Good	1591
2017-11-18 14:00:00	Good	2588
2017-11-11 07:00:00	Good	0
2017-11-04 22:00:00	Good	1380

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-04 12:00:00	Good	2220
2017-11-04 08:00:00	Good	1380
2017-11-04 14:00:00	Good	2820
2017-11-11 09:00:00	Good	0
2017-11-18 09:00:00	Bad	1260
2017-11-18 13:00:00	Bad	2940
2017-11-18 16:00:00	Bad	2340
2017-11-18 12:00:00	Bad	2220
2017-11-25 11:00:00	Good	1140
2017-11-11 10:00:00	Good	1239
2017-11-04 16:00:00	Bad	3130
2017-11-18 15:00:00	Good	2877

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-11 03:00:00	Good	1162
2017-11-04 14:00:00	Good	3060
2017-11-11 13:00:00	Good	1680
2017-11-04 10:00:00	Good	2112
2017-11-04 11:00:00	Good	2328
2017-11-11 05:00:00	Good	1504
2017-11-04 06:00:00	Good	1439
2017-11-18 16:00:00	Bad	2811
2017-11-18 11:00:00	Good	2094
2017-11-11 06:00:00	Good	1430
2017-11-18 12:00:00	Bad	3026
2017-11-04 14:00:00	Good	3120

START_TS	WEATHER_CONDITIONS	DURATION_SECONDS
2017-11-25 12:00:00	Good	1380
2017-11-18 14:00:00	Good	2994
2017-11-11 11:00:00	Good	1620
2017-11-04 12:00:00	Good	2640
2017-11-18 00:00:00	Bad	480
2017-11-18 19:00:00	Good	0
2017-11-11 10:00:00	Good	1414
2017-11-11 12:00:00	Good	1981
2017-11-11 08:00:00	Good	1200
2017-11-04 11:00:00	Good	2160
2017-11-11 15:00:00	Good	2400
2017-11-11 20:00:00	Good	1500

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