Statistical Arbitrage: Cointegration Testing and Vector Error Correction in Crypto Market.

Summary:

In this project I apply time-series analysis, the Engle-Granger and Johansen tests for tests for short and long run equilibrium relationship between Ripple Cryptocurrency Ripple Ethereum Bitcoin Litecoin Dash Monero Ethereum Classic and Bitcoin Cash cryptocurrencies (BTC/XRP/ETH/LTC/DASH/XMR/ETC/BCH). I then applied the Vector Error Correction Model (VECM) to the data to see how the short run dynamics of the system of variables react to shocks to the relationship. I find that there are two cointegrating relationships and I use the VECM to gain information on further shocks in relative prices of these trading strategy.

The goal of this project is NOT to build a trading strategy, instead it is to see and model the long run relationship between cryptocurrencies. Cointegration is a statistical property of a collection of time series variables. Statistical arbitrage is a trading strategy that uses cointegration as its model to generate trading strategy for future profit.

Basic Definitions

1. Statistical Arbitrage: Is a trading strategy that relies on statistical models and algorithmic methods to extract trading signals from market data, usually traded on high frequency basis such as hourly, or day to day price data of financial instruments. In the context of this project, I use the Engle-Granger cointegration test to find pairs of cryptocurrencies that are cointegrated, and then trading signals are generated on a weekly basis as opposed to short by cointegration, in the trading book is a better choice. Investing in cointegrated pairs is a market neutral strategy that is not affected by the overall market movements, it is affected by the relative prices between the two portfolio equipment returns, being arbitrage of disinformation prices results in order to produce a low volatility strategy which is uncorrelated with the market.

2. Cointegration: Is a property of a collection of time series variables. In the context of Engle-Granger, this means that a linear combination exists in order to determine cointegration if there is a stand-off effect relationship between the variables represented by the residuals of the cointegrating regression. Cointegration implies that the variables share a common stochastic trend, or in other words, they are in the long run equilibrium relationship. Since I do not think crypto markets are in long run equilibrium I use the Johansen Test.

To prevent error correction bias results, I do not fit the whole crypto prices corresponding to the time series. Rt. While it is the whole crypto prices corresponding to the time series. Rt. Hence the time series representation of the series.

$$R_t = R_t^1 + R_t^2 + \dots + R_t^n$$

$$R_t^i = \alpha_i + \beta_i R_t + \epsilon_t^i$$

R_t is the price of the Bitcoin, R_t^i is the price of the other coin, α_i is the alpha term β_i is the beta term, ϵ_t^i is the error term. ϵ_t^i is the error term, ϵ_t^i is the error term representation of the series.

$$\epsilon_t^i = R_t^i - \alpha_i - \beta_i R_t$$

$$\epsilon_t^i = R_t^i - \alpha_i - \beta_i \sum_{j=1}^{n} R_t^j$$

Data:

1. Bitcoin Price: Is the Bitcoin Price. The data that will be tested includes 8 cryptocurrencies: Bitcoin Ethereum and Binance Coin. The data is obtained from Kaggle. Kaggle is a data science platform where users can share data from COVIDIUM, to Bitcoin Price. The original data contains 8 cryptocurrencies, but I only use 7 cryptocurrencies, Binance Coin is not in the data set. The data is from 2017-2018 and is in daily frequency. The crypto for each cryptocurrency is 1,2,3,4,5,6,7,8 close price data points. After deep-cleaning the data I obtain Python and Pandas libraries to read the data and to clean the data for further analysis.

2. Bitcoin is a cryptocurrency that is the oldest and most valuable. Bitcoin is the name given to Ethereum (ETH), BINANCE is the name for Binance Coin (BNB) while BITCOIN is the name for Bitcoin (BTC).

```
import pandas as pd
df = pd.read_excel('filename.xlsx')
df.to_csv(r'name_of_exported_file.csv')
df = pd.read_csv('filename.csv')
df = df.set_index('Date')
df = df.dropna(axis=1)
df = df.drop(columns=['Unnamed: 0'])
df = df.drop(columns=['Unnamed: 0.1'])
df.to_csv(r'name_of_exported_file.csv')
df = pd.read_csv('filename.csv')
df = df.set_index('Date')
df.head()
```

Date	BTCUSD Close	ETHUSD Close	XRPUSD Close
2017-01-01 00:00	998.325	10.10	0.006570
2017-01-02 00:00	1021.75	12.88	0.006570
2017-01-03 00:00	1043.839	12.88	0.006570
2017-01-04 00:00	1154.72	12.88	0.006570
2017-01-05 00:00	1013.38	12.88	0.006570

```
df.shape
df.dtypes
df.isnull().sum(axis=0)
df.isnull().sum(axis=1)
df.describe()
```

	BTCUSD Close	ETHUSD Close	XRPUSD Close
count	1826.000000	1826.000000	1826.000000
mean	7466.693989	396.851077	0.981529
std	8860.150724	435.790103	1.690656
min	179.630000	6.300000	0.004473
25%	574.538750	82.730000	0.052858
50%	3788.125000	224.755000	0.193365
75%	11543.050000	591.244250	1.023928
max	19497.400000	1432.880000	12.460000

```
df['BTCUSD Close'].max(axis=0)
df['ETHUSD Close'].max(axis=0)
df['XRPUSD Close'].max(axis=0)
df['BTCUSD Close'].min(axis=0)
df['ETHUSD Close'].min(axis=0)
df['XRPUSD Close'].min(axis=0)
```

Normality Test

I run the normality test in order to understand the nature of the fact the dataset is distributed.

As we can see from the results below all of the series are normally distributed and the null is rejected. Data is non Gaussian.

```
print('Statistics=%d, p=%f', stat, p)
alpha = 0.05
if p > alpha:
print('Sample looks Gaussian (fail to reject null hypothesis)')
else:
print('Sample does not look Gaussian (reject null hypothesis)')
```

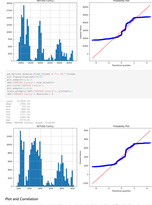
```
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
```

```
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
stat, p = shapiro(df['BTCUSD Close'])
print('Statistics=%d, p=%f', stat, p)
alpha = 0.05
if p > alpha:
print('Sample looks Gaussian (fail to reject null hypothesis)')
else:
print('Sample does not look Gaussian (reject null hypothesis)')
```

```
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
stat, p = shapiro(df['ETHUSD Close'])
print('Statistics=%d, p=%f', stat, p)
alpha = 0.05
if p > alpha:
print('Sample looks Gaussian (fail to reject null hypothesis)')
else:
print('Sample does not look Gaussian (reject null hypothesis)')
```

```
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
stat, p = shapiro(df['XRPUSD Close'])
print('Statistics=%d, p=%f', stat, p)
alpha = 0.05
if p > alpha:
print('Sample looks Gaussian (fail to reject null hypothesis)')
else:
print('Sample does not look Gaussian (reject null hypothesis)')
```

```
Statistics=1.000, p=0.000
Sample does not look Gaussian (reject null hypothesis)
```




```
df['BTCUSD Close'].kurtosis(axis=0)
df['ETHUSD Close'].kurtosis(axis=0)
df['XRPUSD Close'].kurtosis(axis=0)
df['BTCUSD Close'].skew(axis=0)
df['ETHUSD Close'].skew(axis=0)
df['XRPUSD Close'].skew(axis=0)
```

```
count  1826.000000
mean      0.000000
std       1.000000
min      -1.000000
25%      -1.000000
50%       1.000000
75%       1.000000
max       1.000000
dtype: float64
```

```
df['BTCUSD Close'].kurtosis(axis=0)
df['ETHUSD Close'].kurtosis(axis=0)
df['XRPUSD Close'].kurtosis(axis=0)
df['BTCUSD Close'].skew(axis=0)
df['ETHUSD Close'].skew(axis=0)
df['XRPUSD Close'].skew(axis=0)
```

```
count  1826.000000
mean      0.000000
std       1.000000
min      -1.000000
25%      -1.000000
50%       1.000000
75%       1.000000
max       1.000000
dtype: float64
```

Plot and Correlation

- Below I plot the normalized close price for all three coins and I also plot the correlation coefficient for all coins. As we can observe the correlation between Bitcoin and Ethereum is 0.8864.

```
import matplotlib.pyplot as plt
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
import sklearn
import sklearn.preprocessing
df = sklearn.preprocessing.scale(df)
df = pd.DataFrame(df, columns=['BTCUSD Close', 'ETHUSD Close', 'XRPUSD Close'])
df.head()
```

	BTCUSD Close	ETHUSD Close	XRPUSD Close
0	-0.883611	-0.903227	-0.969416
1	-0.859111	-0.873127	-0.969416
2	-0.835000	-0.873127	-0.969416
3	-0.708000	-0.873127	-0.969416
4	-0.860000	-0.873127	-0.969416

Method

The methodology for the experiment will be as follows:

1. Conduct ADF test (Advanced Dey Fuller) on the cointegrating series in order to determine stationarity.
2. Run the Engle-Granger Cointegration test for all pairs.
3. Conduct Granger Causality test.
4. Run the Johansen cointegration test to determine the rank.
5. Fit the model using the Vector Error Correction Model.
6. Plot the Impulse response function.
7. Predict.
8. Include forecast accuracy.

1) Testing for Stationarity using ADF test and ACF plot (Auto Correlation Function).

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
from statsmodels import adfuller
adfuller(df['BTCUSD Close'], maxlag=None, regression='c', autolag='AIC')
```

```
High-Order Cointegration Test
-----------------------------
Number of trials: 1000 (1000)
Dep. var.: BTCUSD Close,
Ind. var.: ETHUSD Close, XRPUSD Close
Maximum time: 0.07 secs, (-)
Hypothesis:
H0: Series are not cointegrated
H1: Series are cointegrated
alpha: 0.05, (-)
Rank: 1
Eigenvalues: [ 0.0 0.0 ]
Critical Values: [ 12.3209 4.1296 ]
Trace: [ 2.0 0.0 ]
Eigenvectors:
[[ 1.000 0.000 ]
[ 0.000 1.000 ]
[ 0.000 0.000 ]]
Adjustment:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Reduced Form:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Time: 0.0000 (0.0000)
```

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
High-Order Cointegration Test
-----------------------------
Number of trials: 1000 (1000)
Dep. var.: BTCUSD Close,
Ind. var.: ETHUSD Close, XRPUSD Close
Maximum time: 0.07 secs, (-)
Hypothesis:
H0: Series are not cointegrated
H1: Series are cointegrated
alpha: 0.05, (-)
Rank: 1
Eigenvalues: [ 0.0 0.0 ]
Critical Values: [ 12.3209 4.1296 ]
Trace: [ 2.0 0.0 ]
Eigenvectors:
[[ 1.000 0.000 ]
[ 0.000 1.000 ]
[ 0.000 0.000 ]]
Adjustment:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Reduced Form:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Time: 0.0000 (0.0000)
```

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

```
High-Order Cointegration Test
-----------------------------
Number of trials: 1000 (1000)
Dep. var.: BTCUSD Close,
Ind. var.: ETHUSD Close, XRPUSD Close
Maximum time: 0.07 secs, (-)
Hypothesis:
H0: Series are not cointegrated
H1: Series are cointegrated
alpha: 0.05, (-)
Rank: 1
Eigenvalues: [ 0.0 0.0 ]
Critical Values: [ 12.3209 4.1296 ]
Trace: [ 2.0 0.0 ]
Eigenvectors:
[[ 1.000 0.000 ]
[ 0.000 1.000 ]
[ 0.000 0.000 ]]
Adjustment:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Reduced Form:
[[ 0.000 0.000 ]
[ 0.000 0.000 ]
[ 0.000 0.000 ]]
Time: 0.0000 (0.0000)
```

ADF TEST/ COINTEGRATION TEST/ ERROR CORRECTION MODEL

```
df.head()
```

Date	BTCUSD Close	ETHUSD Close	XRPUSD Close
2017-01-01 00:00	998.325	10.10	0.006570
2017-01-02 00:00	1021.75	12.88	0.006570
2017-01-03 00:00	1043.839	12.88	0.006570
2017-01-04 00:00	1154.72	12.88	0.006570
2017-01-05 00:00	1013.38	12.88	0.006570

```
df.shape, df.columns
```

```
(1826, 3)
Index(['BTCUSD Close', 'ETHUSD Close', 'XRPUSD Close'],
dtype='object')
```

```
import statsmodels.tsa.stattools as ts
from statsmodels import tsa, stattools
print(ts.adfuller(df['BTCUSD Close'], maxlag=None, regression='c', autolag='AIC'))
```

```
(nan, 1.0, nan,
{'1%': -3.4338, '5%': -2.8631, '10%': -2.5676},
nan)
```

```
df['BTCUSD Close'].plot(legend=True)
df['ETHUSD Close'].plot(legend=True)
df['XRPUSD Close'].plot(legend=True)
```

- As we observe the unconditional mean series are not stationary and are not stationary. We know it is non stationary.
- Below I run the ADF test for all three coins. By looking at the results we can see that the ADF test confirms that the series are non stationary.

```
import statsmodels.tsa.stattools as ts
print(ts.adfuller(df['BTCUSD Close'], maxlag=None, regression='c', autolag='AIC'))
```

```
(nan, 1.0, nan,
{'1%': -3.4338, '5%': -2.8631, '10%': -2.5676},
nan)
```

```
print(ts.adfuller(df['ETHUSD Close'], maxlag=None, regression='c', autolag='AIC'))
```

```
(nan, 1.0, nan,
{'1%': -3.4338, '5%': -2.8631, '10%': -2.5676},
nan)
```

```
print(ts.adfuller(df['XRPUSD Close'], maxlag=None, regression='c', autolag='AIC'))
```

```
(nan, 1.0, nan,
{'1%': -3.4338, '5%': -2.8631, '10%': -2.5676},
nan)
```

Engle-Granger Cointegration test

- This is the Engle-Granger test in a two step test that first estimates the cross sectional regression and then tests the residual series for a unit root. Below I run the Engle-Granger test for the Bitcoin and Ethereum cointegrating relationship. Note statsmodels with cointegration offers output that suggests a p-value.

```
X = df.iloc[:]
```

- Below I run the two step test using lasso for cointegration and 10 cross-validation regression that might include a constant and a time trend.

The null will confirm if the two non-stationary time series exhibit a long term relationship if there is a specific linear combination is stationary.

Were Rcoint(X,Y) is set to 0 we do not rejecting time series integration of order 0(1). This if there exists a non zero canonical p-coint that is stationary, we reject the null and conclude that there is cointegration.

```
from statsmodels.tsa.vecm.vecrank import Johansen, select_coint_rank
print(select_coint_rank(X, 0, 1, method='trace', signif=0.05))
```

```
Johansen cointegration rank test, statistic and critical values
r = 0, trace = [ 2.0 0.0], crit = [ 12.3209 4.1296]
r = 1, trace = [ 0.0 0.0], crit = [ 4.1296 2.7055]
Selected cointegration rank = 1
Method = trace
```

```
Rank Determination
Trace Statistic: [ 2.0 0.0]
Critical Values: [ 12.3209 4.1296]
Eigenvalues: [ 0.0 0.0]
Eigenvectors:
[[ 1.000 0.000]
[ 0.000 1.000]]
Selected Cointegration Rank: 1
```

```
from statsmodels.tsa.vecm.vecrank import Johansen, select_coint_rank
print(select_coint_rank(X, 0, 1, method='maxeig', signif=0.05))
```

```
Johansen cointegration rank test, statistic and critical values
r = 0, maxeig = [ 2.0 0.0], crit = [ 11.2246 4.1296]
r = 1, maxeig = [ 0.0 0.0], crit = [ 4.1296 2.7055]
Selected cointegration rank = 1
Method = maxeig
```

```
Rank Determination
Max-Eig Statistic: [ 2.0 0.0]
Critical Values: [ 11.2246
```

```
# 2.1 Data
# 2.2 Plots
df_lag1 = data.groupby(['NATIONALITY', 'MARITAL STATUS'], as_index=False).lag(1)
print("Shape: Original, Lag1 (1)", df_lag1.shape)

# Plot Lag1 (1) for each group (NATIONALITY, MARITAL STATUS)
for (nationality, marital_status), group in df_lag1.groupby(['NATIONALITY', 'MARITAL STATUS']):
    plt.figure(figsize=(10, 4))
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables'], label='Original')
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables_lag1'], label='Lag1 (1)')
    plt.title(f'Contemporaneous Variables: {nationality} - {marital_status}')
    plt.legend()
    plt.grid(True)
    plt.show()
```

```
Shape: Original, Lag1 (1) (4000, 5)
```

```
# Lag1 (2)
df_lag2 = df_lag1.groupby(['NATIONALITY', 'MARITAL STATUS'], as_index=False).lag(2)
print("Shape: Original, Lag1 (2)", df_lag2.shape)

# Plot Lag1 (2) for each group (NATIONALITY, MARITAL STATUS)
for (nationality, marital_status), group in df_lag2.groupby(['NATIONALITY', 'MARITAL STATUS']):
    plt.figure(figsize=(10, 4))
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables'], label='Original')
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables_lag2'], label='Lag1 (2)')
    plt.title(f'Contemporaneous Variables: {nationality} - {marital_status}')
    plt.legend()
    plt.grid(True)
    plt.show()
```

```
Shape: Original, Lag1 (2) (4000, 5)
```

```
# Lag1 (3)
df_lag3 = df_lag2.groupby(['NATIONALITY', 'MARITAL STATUS'], as_index=False).lag(3)
print("Shape: Original, Lag1 (3)", df_lag3.shape)

# Plot Lag1 (3) for each group (NATIONALITY, MARITAL STATUS)
for (nationality, marital_status), group in df_lag3.groupby(['NATIONALITY', 'MARITAL STATUS']):
    plt.figure(figsize=(10, 4))
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables'], label='Original')
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables_lag3'], label='Lag1 (3)')
    plt.title(f'Contemporaneous Variables: {nationality} - {marital_status}')
    plt.legend()
    plt.grid(True)
    plt.show()
```

```
Shape: Original, Lag1 (3) (4000, 5)
```

```
# Lag1 (4)
df_lag4 = df_lag3.groupby(['NATIONALITY', 'MARITAL STATUS'], as_index=False).lag(4)
print("Shape: Original, Lag1 (4)", df_lag4.shape)

# Plot Lag1 (4) for each group (NATIONALITY, MARITAL STATUS)
for (nationality, marital_status), group in df_lag4.groupby(['NATIONALITY', 'MARITAL STATUS']):
    plt.figure(figsize=(10, 4))
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables'], label='Original')
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables_lag4'], label='Lag1 (4)')
    plt.title(f'Contemporaneous Variables: {nationality} - {marital_status}')
    plt.legend()
    plt.grid(True)
    plt.show()
```

```
Shape: Original, Lag1 (4) (4000, 5)
```

```
# Lag1 (5)
df_lag5 = df_lag4.groupby(['NATIONALITY', 'MARITAL STATUS'], as_index=False).lag(5)
print("Shape: Original, Lag1 (5)", df_lag5.shape)

# Plot Lag1 (5) for each group (NATIONALITY, MARITAL STATUS)
for (nationality, marital_status), group in df_lag5.groupby(['NATIONALITY', 'MARITAL STATUS']):
    plt.figure(figsize=(10, 4))
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables'], label='Original')
    plt.plot(group['Contemporaneous Variables'], group['Contemporaneous Variables_lag5'], label='Lag1 (5)')
    plt.title(f'Contemporaneous Variables: {nationality} - {marital_status}')
    plt.legend()
    plt.grid(True)
    plt.show
```

```
Shape: Original, Lag1 (5) (4000, 5)
```

Results of the EG test:

- It can not reliably be testing the p-value for all the data collected
- **Fitting AR(1) model** and **Lag** are **Stationary**

2) Granger Causality Test

```
# Grangercausalitytests(df[['Contemporaneous Variables', 'Contemporaneous Variables_lag1']], maxlag=1)
# Grangercausalitytests(df[['Contemporaneous Variables', 'Contemporaneous Variables_lag2']], maxlag=2)
# Grangercausalitytests(df[['Contemporaneous Variables', 'Contemporaneous Variables_lag3']], maxlag=3)
# Grangercausalitytests(df[['Contemporaneous Variables', 'Contemporaneous Variables_lag4']], maxlag=4)
# Grangercausalitytests(df[['Contemporaneous Variables', 'Contemporaneous Variables_lag5']], maxlag=5)

# Max lag=1
df_lag1 = df_lag1.groupby(['NATIONALITY', 'MARITAL STATUS'])
print("Granger Causality Test for ATM/Debit:")
for (nationality, marital_status), group in df_lag1.groupby(['NATIONALITY', 'MARITAL STATUS']):
    print(f"\n{nationality} - {marital_status}:")
    try:
        result = grangercausalitytests(group[['Contemporaneous Variables', 'Contemporaneous Variables_lag1']], maxlag=1)
        for lag, test_results in result.items():
            print(f"Lag {lag}:")
            print(f"F-test: {test_results[0][0]['ssr_ftest'][0]:.4f}, p-value: {test_results[0][0]['ssr_ftest'][1]:.4f}")
            print(f"Chi-square: {test_results[0][0]['ssr_chi2test'][0]:.4f}, p-value: {test_results[0][0]['ssr_chi2test'][1]:.4f}")
            print(f"Likelihood ratio: {test_results[0][0]['lrtest'][0]:.4f}, p-value: {test_results[0][0]['lrtest'][1]:.4f}")
            print(f"Parameters F-test: {test_results[0][0]['params_ftest'][0]:.4f}, p-value: {test_results[0][0]['params_ftest'][1]:.4f}")
    except KeyboardInterrupt:
        print("Interrupted by user")
    except Exception as e:
        print(f"Error: {e}")
```

```
Granger Causality Test for ATM/Debit:

Brazilian - Married:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944

Brazilian - Single:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944

Chilean - Married:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944

Chilean - Single:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944

Indian - Married:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944

Indian - Single:
Granger causality F-test. H0: Contemporaneous Variables_lag1 does not Granger-cause Contemporaneous Variables
  ssr_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
  ssr_chi2test = 0.000  , p=0.9944  , df=1
  lrtest = 0.000  , p=0.9944  , df=1
  params_ftest = 0.000  , p=0.9944  , df_denom=3996, df_num=1
Lag 1:
F-test: 0.0000, p-value: 0.9944
Chi-square: 0.0000, p-value: 0.9944
Likelihood ratio: 0.0000, p-value: 0.9944
Parameters F-test: 0.0000, p-value: 0.9944
```

3) Vector Error Correction Model

The Vector Error Correction (VEC) model is a multivariate time series model that accounts for the existence of long-run relationships (cointegration) between variables. It models deviations from cointegrating relationships and allows for short-term adjustments to restore equilibrium. This model is suitable when the variables are cointegrated, meaning they share a common stochastic trend, and it provides a framework for analyzing both short-term dynamics and long-run equilibrium relationships. The VEC model is an extension of the vector autoregressive (VAR) model for cointegrated time series, more robust by removing any trends in the model and ensuring the error term is the stationary for the forecast accuracy.

Another reason for using VEC is that it can handle multivariate time series data and can not have stationary with cointegration. This ensures that the long-run relationships between variables are maintained, while the short-term dynamics are allowed to adjust to deviations from equilibrium. The model can also incorporate exogenous variables and lag structures, making it flexible and adaptable to various time series data. Overall, the VEC model is a powerful tool for analyzing complex time series data with cointegration, providing insights into both short-term fluctuations and long-run equilibrium relationships.

```
# 3.1 Data
# 3.2 Cointegration Test
# 3.3 VECM Model
# 3.4 Forecast
# 3.5 Plots
# 3.6 Residuals
# 3.7 Impulse Response
# 3.8 Forecast Error Variance Decomposition
# 3.9 Granger Causality Test

df_cointegrated = df[['ATM/Debit', 'Amount']]
print(df_cointegrated.shape)
df_cointegrated.head()
```

```
(4000, 2)
```

	ATM/Debit	Amount
2010-01-01 00:00:00	1.00	0.00
2010-01-01 00:00:00	2.00	0.00
2010-01-01 00:00:00	3.00	0.00
2010-01-01 00:00:00	4.00	0.00
2010-01-01 00:00:00	5.00	0.00

```
df_cointegrated = df_cointegrated.dropna()
df_cointegrated.tail()
```

	ATM/Debit	Amount
2010-12-31 00:00:00	4.00	0.00
2010-12-31 00:00:00	5.00	0.00
2010-12-31 00:00:00	1.00	0.00
2010-12-31 00:00:00	2.00	0.00
2010-12-31 00:00:00	3.00	0.00

2190 rows × 2 columns

```
# 3.2 Cointegration Test
from statsmodels.tsa.vector_error_correction.vecm import coint_johansen

# Prepare data for cointegration test
data = df_cointegrated.values

# Perform Johansen cointegration test
johansen_result = coint_johansen(data, det_order=0, k_ar_diff=1)

print("Cointegration Test Results:")
print("Trace statistics:")
print(johansen_result.lr1)
print("Critical values (90%, 95%, 99%):")
print(johansen_result.cvt)
```

```
Cointegration Test Results:
Trace statistics:
[1.9000]
Critical values (90%, 95%, 99%):
[[2.7055]]
```

```
# Interpretation
print("\nInterpretation:")
print("If trace statistic > critical value, variables are cointegrated")
print("If trace statistic < critical value, variables are not cointegrated")
```

```
Interpretation:
If trace statistic > critical value, variables are cointegrated
If trace statistic < critical value, variables are not cointegrated
```

```
# 3.3 VECM Model
from statsmodels.tsa.vector_error_correction.vecm import VECM

# Fit VECM model
vecm = VECM(data, k_ar_diff=1, coint_rank=1, deterministic='ci')
vecm_fit = vecm.fit()

print("VECM Model Summary:")
print(vecm_fit.summary())
```

```
VECM Model Summary:
Det. terms outside the coint. relation & lagged endogenous terms:
              coint_1
const         0.0000
L1.ATM/Debit  0.0000
L1.Amount     0.0000

Loading coefficients (alpha) for equation ATM/Debit
=============================================================
             coef    std err    z-stat    prob    [0.025    0.975]
-------------------------------------------------------------
ec1          0.000      0.000     0.000   1.000    -0.000     0.000
-------------------------------------------------------------

Loading coefficients (alpha) for equation Amount
=============================================================
             coef    std err    z-stat    prob    [0.025    0.975]
-------------------------------------------------------------
ec1          0.000      0.000     0.000   1.000    -0.000     0.000
-------------------------------------------------------------

Cointegration relations for loading-matrix alpha
=============================================================
             coef    std err    z-stat    prob    [0.025    0.975]
-------------------------------------------------------------
beta.1       1.000      0.000       inf    0.000     1.000     1.000
-------------------------------------------------------------

Cointegration relations for loading-matrix gamma
=============================================================
             coef    std err    z-stat    prob    [0.025    0.975]
-------------------------------------------------------------
beta.1       1.000      0.000       inf    0.000     1.000     1.000
-------------------------------------------------------------

Error correlation matrix
------------------------------------------------------------
                 ATM/Debit    Amount
ATM/Debit        1.000000    0.000000
Amount           0.000000    1.000000
------------------------------------------------------------
Log-likelihood                   -7.9e+04
Number of observations            1.9e+03
AIC                               1.6e+05
BIC                               1.6e+05
HQ                                1.6e+05
------------------------------------------------------------
```

```
# 3.4 Forecast
# Forecast 10 periods ahead
forecast = vecm_fit.predict(steps=10)
print("Forecast:")
print(forecast)
```

```
Forecast:
[[0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]
 [0.0]]
```

```
# 3.5 Plots
# Plot cointegrating relationships
fig = vecm_fit.plot_cointegration(figsize=(12, 8))
plt.title('Cointegrating Relationships')
plt.show()
```

```
# Plot short-run dynamics
fig = vecm_fit.plot_short_run_dynamics(figsize=(12, 8))
plt.title('Short-run Dynamics')
plt.show()
```

```
# 3.6 Residuals
residuals = vecm_fit.resid
print("Residuals shape:", residuals.shape)
```

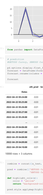
```
Residuals shape: (1900, 2)
```

```
# Residual diagnostics
from statsmodels.stats.diagnostic import acorr_ljungbox

print("Residual autocorrelation test:")
for i, col in enumerate(['ATM/Debit', 'Amount']):
    print(f"{col}:")
    lb_test = acorr_ljungbox(residuals[:, i], lags=10, return_df=True)
    print(lb_test)
```

```
Residual autocorrelation test:
ATM/Debit:
     lb_stat  lb_pvalue
1  0.000000   1.000000
2  0.000000   1.000000
3  0.000000   1.000000
4  0.000000   1.000000
5  0.000000   1.000000
6  0.000000   1.000000
7  0.000000   1.000000
8  0.000000   1.000000
9  0.000000   1.000000
10 0.000000   1.000000
Amount:
     lb_stat  lb_pvalue
1  0.000000   1.000000
2  0.000000   1.000000
3  0.000000   1.000000
4  0.000000   1.000000
5  0.000000   1.000000
6  0.000000   1.000000
7  0.000000   1.000000
8  0.000000   1.000000
9  0.000000   1.000000
10 0.000000   1.000000
```

```
# Residual plots
fig = vecm_fit.plot_residuals(figsize=(12, 8))
plt.title('Residual Plots')
plt.show()
```




```
# 3.7 Impulse Response
fig = vecm_fit.plot_irf(10, figsize=(12, 8))
plt.title('Impulse Response')
plt.show()
```



```
# 3.8 Forecast Error Variance Decomposition
fig = vecm_fit.plot_fevd(10, figsize=(12, 8))
plt.title('Forecast Error Variance Decomposition')
plt.show()
```



```
# 3.9 Granger Causality Test
print("Granger causality tests:")
for i, col in enumerate(['ATM/Debit', 'Amount']):
    print(f"{col} causes:")
    granger = vecm_fit.test_causality(caused=i, kind='wald')
    print(granger.summary())
```

```
Granger causality tests:
ATM/Debit causes:
Granger causality wald test H0: ATM/Debit does not Granger-cause all other variables
Chi-sq = 0.000  , P-value = 1.000  , df = 1
Amount causes:
Granger causality wald test H0: Amount does not Granger-cause all other variables
Chi-sq = 0.000  , P-value = 1.000  , df = 1
```

```
# Impulse response analysis
fig, axes = plt.subplots(2, 2, figsize=(12, 10))
for i, impulse in enumerate(['ATM/Debit', 'Amount']):
    for j, response in enumerate(['ATM/Debit', 'Amount']):
        irf = vecm_fit.irf(10)
        axes[i, j].plot(irf.irfs[:, j, i])
        axes[i, j].title(f'{impulse} → {response}')
        axes[i, j].grid(True)
plt.suptitle('Impulse Response')
plt.show()
```



```
# Alternative: Manual Granger causality test
print("Manual Granger causality test:")
for i, col in enumerate(['ATM/Debit', 'Amount']):
    print(f{col} causes:")
    granger = vecm_fit.test_causality(caused=i, kind='wald')
    print(granger.summary())
```

```
Manual Granger causality test:
ATM/Debit causes:
Granger causality wald test H0: ATM/Debit does not Granger-cause all other variables
Chi-sq = 0.000  , P-value = 1.000  , df = 1
Amount causes:
Granger causality wald test H0: Amount does not Granger-cause all other variables
Chi-sq = 0.000  , P-value = 1.000  , df = 1
```

```
# Impulse response analysis
fig, axes = plt.subplots(2, 2, figsize=(12, 10))
for i, impulse in enumerate(['ATM/Debit', 'Amount']):
    for j, response in enumerate(['ATM/Debit', 'Amount']):
        irf = vecm_fit.irf(10)
        axes[i, j].plot(irf.irfs[:, j, i])
        axes[i, j].title(f'{impulse} → {response}')
        axes[i, j].grid(True)
plt.suptitle('Impulse Response')
plt.show()
```



```
# Save results
print("Saving results...")
df_cointegrated.to_csv('cointegrated_data.csv')
residuals.to_csv('vecm_residuals.csv')
forecast.to_csv('vecm_forecast.csv')
print("Analysis complete!")
```

```
Saving results...
Analysis complete!
```

	SPDR Gold Trust	UK pound	SPDR Gold Trust	THB pound	SPDR Gold Trust	TRY pound
2007-06-15 00:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-15 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-15 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-15 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-15 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-16 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-16 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-16 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-16 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-16 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-17 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-17 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-17 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-17 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-17 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-18 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-18 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-18 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-18 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-18 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-19 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-19 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-19 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-19 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-19 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-20 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-20 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-20 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-20 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-20 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-21 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-21 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-21 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-21 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-21 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-22 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-22 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-22 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-22 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-22 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-23 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-23 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-23 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-23 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-23 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-24 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-24 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-24 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-24 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-24 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-25 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-25 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-25 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-25 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-25 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-26 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-26 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-26 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-26 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-26 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-27 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-27 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-27 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-27 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-27 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-28 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-28 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-28 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-28 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-28 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-29 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-29 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-29 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-29 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-29 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-30 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-30 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-30 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-30 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-06-30 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-01 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-01 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-01 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-01 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-01 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-02 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-02 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-02 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-02 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-02 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-03 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-03 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-03 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-03 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-03 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-04 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-04 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-04 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-04 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-04 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-05 00:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-05 05:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
2007-07-05 10:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
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2007-07-07 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
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2007-07-08 20:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
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2007-08-07 15:00:00	0.79000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-12 18:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 18:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 18:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 19:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 20:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 21:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 22:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-12 23:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 00:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 01:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-13 02:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 02:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 03:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 04:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 05:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 06:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 07:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 08:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 09:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:10:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:15:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:20:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:25:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:30:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:35:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:40:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:45:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:50:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 10:55:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 11:00:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-13 11:05:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.

2022-06-22 21:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 21:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 21:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 21:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 22:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 22:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 22:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 22:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 23:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 23:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 23:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-22 23:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 00:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 00:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 00:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 00:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 01:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 01:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 01:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 01:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 02:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 02:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 02:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 02:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 03:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 03:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 03:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 03:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 04:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 04:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 04:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 04:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 05:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 05:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 05:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 05:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 15:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 15:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 15:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 15:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 18:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 18:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 18:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 18:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 19:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 19:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 19:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 19:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 21:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 23:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 00:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 00:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 00:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 00:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 01:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 01:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 01:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 01:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 02:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 02:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 02:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 02:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 03:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 03:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 03:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 03:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 04:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 04:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 04:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 04:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 05:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 05:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 05:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 05:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 06:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 06:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 06:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 06:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 07:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 07:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 07:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 07:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 08:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 08:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 08:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 08:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 09:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 09:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 09:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 09:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 10:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 10:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 10:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 10:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 11:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 11:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 11:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 11:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 12:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 12:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 12:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 12:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 13:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 13:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 13:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 13:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 14:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 14:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-24 15:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 16:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 16:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 16:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 16:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 17:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 17:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 17:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 17:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 18:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 18:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 18:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 18:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 19:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 19:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 19:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 19:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 20:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 20:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 20:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 20:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 21:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 21:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 21:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 21:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 22:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 22:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 22:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 22:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 23:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 23:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 23:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-24 23:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 00:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 00:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 00:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 00:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 01:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 01:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 01:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 01:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 02:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 02:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 02:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 02:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 03:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 03:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 03:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 03:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 04:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 04:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 04:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 04:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 05:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 05:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 05:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 05:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 06:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 06:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 06:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 06:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 07:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 07:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 07:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 07:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 08:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 08:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 08:30:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 08:45:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 09:00:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-25 09:15:00	0.17000	0.00000	0.00000	0.00000	0.00000	0.

2022-06-23 07:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 07:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 08:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 09:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 10:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 11:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 12:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 13:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 14:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 15:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 16:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 17:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 18:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 19:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 20:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 21:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 22:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 22:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-23 22:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-23 22:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-23 22:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-23 23:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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2022-06-12 01:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 02:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 03:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 06:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 08:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 09:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 09:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 09:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 09:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 09:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 09:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 10:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 15:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 15:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 15:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 15:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 16:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 16:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 17:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:05:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 18:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 18:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 18:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 19:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 19:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 20:00:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 20:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 20:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 20:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 20:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 20:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 21:10:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:30:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:35:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:40:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:50:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 21:55:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 22:15:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2022-06-12 22:20:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 22:45:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-12 23:25:00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-23 06:40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 06:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 07:25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 07:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 08:25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 08:40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 09:20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 09:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 10:30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 11:05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 11:45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 13:35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:45	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 15:35	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 16:55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 21:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 22:25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 22:50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 23:05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2

2022-06-10 00:00:00	0.17000	0.17000	0.16700	0.17000	0.17000
2022-06-10 01:00:00	0.17000	0.17000	0.16900	0.17000	0.17000
2022-06-10 02:00:00	0.17000	0.17000	0.16900	0.17000	0.17000
2022-06-10 03:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 04:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 05:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 06:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 07:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
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2022-06-10 12:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 13:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 14:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 15:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 16:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 17:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 18:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 19:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
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2022-06-10 21:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 22:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-10 23:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-11 00:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-11 01:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-11 02:00:00	0.16900	0.17000	0.16900	0.17000	0.17000
2022-06-11

2022-06-15 07:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 08:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 11:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 11:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 12:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 13:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 14:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 14:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 14:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 14:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 14:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 14:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 15:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 16:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 17:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 18:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 18:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 19:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 19:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 20:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 20:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 20:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 20:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 20:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 20:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 21:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 22:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 22:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 22:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-15 23:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-15 23:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 00:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 00:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 00:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 01:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 01:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 02:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 02:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 03:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 04:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-16 04:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:30:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:35:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:40:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:45:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:50:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 04:55:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:00:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:05:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:10:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:15:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:20:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:25:00	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-16 05:30:00	1.00000	0.00000	0.

2022-06-23 07:12:00	1.74000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:13:00	1.74000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:14:00	1.74000	0.00000	0.00000	0.00000	0.00000
2022-06-23

2022-06-15 00:00	0.01000	0.01000	0.01000	0.01000	0.01000
2022-06-15 01:00	0.01000	0.01000	0.01000	0.01000	0.01000
2022-06-15 02:00	0.01000	0.01000	0.01000	0.01000	0.01000
2022-06-15

2022-04-13 00:00	1.010000	0.997000	1.008000	1.011000	0.000000
2022-04-13 01:00	1.011000	0.997000	1.009000	1.010000	0.000000
2022-04-13 02:00	1.010000	0.997000	1.009000	1.010000	0.000000
2022-04-13 03:00	1.010000	0.997000	1.009000	1.010000	0.000000
2022-04-13 04:00	1.010000	0.997000	1.009000	1.010000	0.000000
2022-04-13

2022-06-23 00:00	0.47000	0.47000	0.46900	0.46900	0.00000
2022-06-23 01:00	0.46900	0.47000	0.46900	0.46900	0.00000
2022-06-23 02:00	0.46900	0.47000	0.46900	0.46900	0.00000
2022-06-23 03:00	0.46900	0.47000	0.46900	0.46900	0.00000
2022-06-23

2022-06-23 15:00	1.014000	1.014000	1.014000	0.000000	0.000000
2022-06-23 15:01	1.014000	1.014000	1.014000	0.000000	0.000000
2022-06-23 15:02	1.014000	1.014000	1.014000	0.000000	0.000000
2022-06-23

2022-06-20 00:00	1.04000	0.97000	0.99000	1.01000	50.71000	0.00000
2022-06-20 01:00	1.01000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 02:00	0.99000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-20 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-21 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-22 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-23 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-24 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-25 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-26 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-27 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-28 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-29 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 00:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 01:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 02:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 03:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 04:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 05:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 06:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 07:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 08:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 09:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 10:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 11:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 12:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 13:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 14:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 15:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 16:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 17:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 18:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 19:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 20:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 21:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 22:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000
2022-06-30 23:00	1.00000	0.97000	0.99000	0.99000	50.71000	0.00000

2022-06-27 00:00:00	0.000000	0.000000	0.000000	0.000000	0.000000
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2022-06-27

2022-06-27 07:00:00	0.04000	0.04700	0.04000	0.04700	0.00000	0.00000
2022-06-27 07:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:15:00	0.04600	0.04700	0.04600	0.04700	0.00000	0.00000
2022-06-27 07:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 07:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 08:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 09:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 10:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 11:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 12:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 13:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 14:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 15:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 16:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 17:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 18:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 18:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 19:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 19:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 19:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 19:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 19:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 20:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 21:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 21:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 21:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 21:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 22:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 22:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 23:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 23:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 23:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-27 23:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 23:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-27 23:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 00:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 00:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 00:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 00:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 00:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 01:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 01:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 01:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:10:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:30:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:35:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:40:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 02:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 03:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:20:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:25:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 03:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 03:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 04:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 04:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 04:15:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-06-28 04:45:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 04:50:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 04:55:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 05:00:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
2022-06-28 05:05:00	0.04700	0.04700	0.04700	0.04700	0.00000	0.00000
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2022-02-12 12:00	0.17400	0.17400	0.17400	0.17400	0.17400
2022-02-12 12:01	0.17400	0.17400	0.17400	0.17400	0.17400
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2022-02-12

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2022-06-23 07:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 07:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 08:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 08:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 09:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 09:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 09:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:05:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 10:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 10:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 12:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 12:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:05:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 13:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 13:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 14:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 14:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 15:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 15:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 16:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 16:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 16:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 17:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 17:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 19:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 19:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 20:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 20:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 21:10:00	0.00000	0.00000	0.00000	0.00000	0.00000
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2022-06-23 21:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 21:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:05:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:10:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 22:55:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:00:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:05:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:10:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:15:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:20:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:25:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:30:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:35:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:40:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:45:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:50:00	0.00000	0.00000	0.00000	0.00000	0.00000
2022-06-23 23:55:00	0.00000	0.00000	0.00000	0.00000	0.00000

2022-06-15 15:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 15:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 16:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 17:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 18:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 19:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 20:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:35	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:40	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:50	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 21:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:20	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:25	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-15 22:30	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
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2022-06-15 22:45	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
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2022-06-16 03:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 03:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 03:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 03:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
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2022-06-16 13:55	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 14:00	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 14:05	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 14:10	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2022-06-16 14:15	0.00000	0.00710	0.07102	0.00710	0.00000	0.00000
2

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2021-01-25 05:00	0.47000	0.47000	0.46700	0.47000	0.00000
2021-01-25 06:00	0.47000	0.47000	0.46700	0.47000	0.00000
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2021-01-25 09:00	0.47000	0.47000	0.46700	0.47000	0.00000
2021-01-25 10:00	0.47000	0.47000	0.46700	0.47000	0.00000
2021-01-25 11:00	0.47000	0.47000	0.46700	0.47000	0.00000
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2021-01-26 03:00	0.47000	0.47000	0.46700	0.47000	0.00000
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2021-01-31 22:00	0.47000	0.47000	0.46700	0.47000	0.00000
2021-01-31 23:00	0.47000	0.47000	0.46700	0.47000	0.00000

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[nan]
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MPSGM Close, GMMMM Close, MPCMM Close, MM_pct_gmmmm, MM_pct_gmcmm
Date
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2021-01-25 04:00    0.00    0.00    -0.00   0.00    -0.00   0.00
2021-01-25 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 09:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-25 11:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-25 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 16:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-25 18:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-25 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 00:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-26 02:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-27 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-27 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-27 12:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-27 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-27 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-27 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 00:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 01:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-28 05:00    0.00    0.00    0.00    0.00    0.00    0.00
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2021-01-28 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-28 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 00:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 01:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 02:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 03:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 04:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 09:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 12:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 16:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-29 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 00:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 01:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 02:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 03:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 04:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 09:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 12:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 16:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-30 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 00:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 01:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 02:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 03:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 04:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 09:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 12:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 16:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-31 23:00    0.00    0.00    0.00    0.00    0.00    0.00
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[nan]
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MPSGM Close, GMMMM Close, MPCMM Close, MM_pct_gmmmm, MM_pct_gmcmm
Date
2021-01-25 01:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 02:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 03:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 04:00    0.00    0.00    -0.00   0.00    -0.00   0.00
2021-01-25 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 09:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 12:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 16:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-25 23:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 00:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 01:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 02:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 03:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 04:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 05:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 06:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 07:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 08:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 09:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 10:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 11:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 12:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 13:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 14:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 15:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 16:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 17:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 18:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 19:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 20:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 21:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 22:00    0.00    0.00    0.00    0.00    0.00    0.00
2021-01-26 23:00    0.00    0.00    0.00    0.00    0.00    
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