

Team_03_Assignment

November 26, 2022

```
[1]: from IPython.display import display, Math, Latex

import pandas as pd
import numpy as np
import numpy_financial as npf
import yfinance as yf
import matplotlib.pyplot as plt
from datetime import datetime
```

0.1 Group Assignment

0.1.1 Team Number: 03

0.1.2 Team Member Names: Sherry, Kelly, Ifan

0.1.3 Team Strategy Chosen: SAFE

0.1.4 Introduction

Our safe portfolio generator follows the strategy to have two portfolios, before combining them altogether using the Monte Carlo algorithm. The first portfolio contains a number of stocks with the lowest betas and standard deviation, computed using a point system that will be explained further later on. The second portfolio contains a number of stocks that are negatively correlated to help offset any fluctuations. We also account for diversification, ensuring that there are not too many industries dominating the portfolio, to further reduce overall risk. We finally find the combined portfolio weighting using Monte Carlo.

To start, we will filter through the given list of stocks to drop any stocks that do not meet our requirements.

```
[2]: max_stocks = 25 #The total number of stocks we can possibly have
tickers_df = pd.read_csv('Tickers_Example.csv')
#When the CSV file is read, it takes the first ticker and makes it the name of
↳the column, so we need to extract it
tickers_list = list(tickers_df.columns)
#Now add the rest of the tickers in after it:
tickers_list += tickers_df.iloc[:, 0].tolist()
tickers_num = len(tickers_list)

#Dates to pull closing data from, change as needed
```

```

start_date = '2020-01-01'
end_date = '2022-11-25'

# Dictionary of all the stocks
stocks_dict = {}
stocks_full_info = {}

# Function produces the daily closing prices of a stock
def get_closing_prices(ticker, start, end):
    stock = yf.Ticker(ticker)
    hist = stock.history(start=start, end=end) #Daily
    return hist.Close

for i in range (tickers_num):
    stocks_dict[tickers_list[i]] = get_closing_prices(tickers_list[i],
↪start_date, end_date)
    stocks_full_info[tickers_list[i]] = yf.Ticker(tickers_list[i])

# Create DataFrame
all_prices = pd.DataFrame(stocks_dict)

tickers_list_temp = tickers_list.copy()
#Some tickers are delisted, so we drop those columns entirely
for i in range (tickers_num):
    if all_prices[tickers_list[i]].isnull().all():
        all_prices.drop(columns=[tickers_list[i]], inplace=True)
        tickers_list_temp.remove(tickers_list[i]) #Getting rid of the tickers
↪from our list too to match
        stocks_full_info.pop(tickers_list[i]) #Do the same to the dictionary of
↪yfinance ticker objects

tickers_list = tickers_list_temp.copy()
tickers_num = len(tickers_list)

#Drop the rows at the bottom of the DataFrame where only a few stocks have
↪values and where the dates are strange
all_prices = all_prices.dropna()

print(tickers_list)

#Display the entire DataFrame, so that we can manually check to make sure the
↪values are sensible
#using threading
with pd.option_context('display.max_rows', None, 'display.max_columns', None):
    display(all_prices)

```

- AGN: No data found, symbol may be delisted

- CELG: No data found, symbol may be delisted
- PCLN: No data found for this date range, symbol may be delisted
- RTN: No data found, symbol may be delisted
- TWX: No data found for this date range, symbol may be delisted
['AAPL', 'ABBV', 'ABT', 'ACN', 'AIG', 'AMZN', 'AXP', 'BA', 'BAC', 'BIIB', 'BK',
'BLK', 'BMY', 'C', 'CAT', 'CL', 'CMCSA', 'COF', 'COP', 'COST', 'CSCO', 'CVS',
'GM', 'GOOG', 'JPM', 'KMI', 'KO', 'LLY', 'LMT', 'MO', 'MON', 'MRK', 'MS',
'MSFT', 'NEE', 'NKE', 'ORCL', 'OXY', 'PEP', 'PFE', 'PG', 'PM', 'PYPL', 'QCOM',
'RY.TO', 'SBUX', 'SLB', 'SO', 'SPG', 'T', 'TD.TO', 'TGT', 'TXN', 'UNH', 'UNP',
'UPS', 'USB']

	AAPL	ABBV	ABT	ACN \
Date				
2021-03-16 00:00:00	124.265900	102.991287	114.960411	257.676697
2021-03-17 00:00:00	123.464317	97.601997	114.376945	258.410065
2021-03-18 00:00:00	119.278244	96.421921	114.853439	260.971985
2021-03-19 00:00:00	118.743858	96.096695	116.934433	257.930908
2021-03-22 00:00:00	122.108559	98.401108	118.120804	259.319489
2021-03-23 00:00:00	121.267380	97.416161	117.167809	260.131042
2021-03-24 00:00:00	118.842812	95.762192	114.765915	261.617310
2021-03-25 00:00:00	119.337631	96.524132	115.767532	262.653809
2021-03-26 00:00:00	119.951187	98.475441	118.704254	274.544189
2021-03-29 00:00:00	120.129311	99.172340	118.859856	273.341492
2021-03-30 00:00:00	118.654785	99.228073	116.448212	272.373383
2021-03-31 00:00:00	120.881439	100.556824	116.535736	270.124390
2021-04-01 00:00:00	121.722595	100.835571	115.660561	272.168060
2021-04-05 00:00:00	124.592491	98.624107	116.555191	274.896210
2021-04-06 00:00:00	124.899261	97.917923	116.662155	275.385132
2021-04-07 00:00:00	126.571724	97.759949	116.798302	276.304291
2021-04-08 00:00:00	129.006149	98.586937	116.477394	278.113251
2021-04-09 00:00:00	131.618744	99.924973	117.566505	281.330322
2021-04-12 00:00:00	129.877029	100.584694	117.702652	281.164124
2021-04-13 00:00:00	133.033890	100.556824	119.618340	278.895508
2021-04-14 00:00:00	130.658813	99.597519	118.583778	278.993591
2021-04-15 00:00:00	133.103180	100.528603	120.965218	279.690033
2021-04-16 00:00:00	132.766678	101.487892	121.365372	281.465363
2021-04-19 00:00:00	133.439636	102.146233	121.541054	281.053375
2021-04-20 00:00:00	131.727600	102.541237	117.119781	283.073975
2021-04-21 00:00:00	132.113556	104.205894	119.657379	285.153351
2021-04-22 00:00:00	130.569763	103.500542	120.535774	284.604065
2021-04-23 00:00:00	132.925049	104.751373	120.350334	286.153809
2021-04-26 00:00:00	133.320892	104.760788	119.637856	283.976318
2021-04-27 00:00:00	132.994308	104.807816	118.778969	284.692352
2021-04-28 00:00:00	132.192734	105.268654	118.534981	284.711975
2021-04-29 00:00:00	132.093765	104.290543	118.105537	286.938507
2021-04-30 00:00:00	130.094742	104.864250	117.197861	284.417694
2021-05-03 00:00:00	131.163498	107.854980	116.661057	286.575623
2021-05-04 00:00:00	126.522232	107.121414	114.718819	286.016510

2021-05-05 00:00:00	126.769638	108.889526	115.665543	283.976318
2021-05-06 00:00:00	128.392624	109.171669	115.938835	285.584930
2021-05-07 00:00:00	129.076614	108.861305	116.094978	285.947876
2021-05-10 00:00:00	125.745842	109.303345	116.085228	285.045441
2021-05-11 00:00:00	124.814034	108.052490	115.548416	282.436432
2021-05-12 00:00:00	121.701347	108.118324	113.557388	274.040283
2021-05-13 00:00:00	123.882202	109.660721	114.630997	279.856750
2021-05-14 00:00:00	126.340622	109.500839	115.470345	282.681641
2021-05-17 00:00:00	125.170891	109.933456	113.938026	281.504578
2021-05-18 00:00:00	123.763245	110.234421	114.172264	277.591003
2021-05-19 00:00:00	123.604645	108.955353	113.586655	275.590027
2021-05-20 00:00:00	126.201836	110.140366	114.972595	278.512970
2021-05-21 00:00:00	124.338211	109.209290	114.318665	277.953888
2021-05-25 00:00:00	125.795410	107.742134	115.558182	280.513916
2021-05-26 00:00:00	125.745842	107.873802	113.947784	278.512970
2021-05-27 00:00:00	124.189507	105.635452	112.913223	274.687592
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2021-06-01 00:00:00	123.198212	105.531990	103.250839	275.501770
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2021-06-03 00:00:00	122.464653	105.531990	106.578995	274.275696
2021-06-04 00:00:00	124.794197	105.673073	106.666840	277.747925
2021-06-07 00:00:00	124.804123	106.284378	107.359802	276.786713
2021-06-08 00:00:00	125.636803	105.654243	105.310196	276.060852
2021-06-09 00:00:00	126.023407	107.215462	106.432602	276.708160
2021-06-10 00:00:00	125.012291	109.322144	107.506203	278.777832
2021-06-11 00:00:00	126.241486	108.550949	107.271965	279.817535
2021-06-14 00:00:00	129.344223	108.532143	107.828285	280.239288
2021-06-15 00:00:00	128.511536	108.936562	107.759956	280.710083
2021-06-16 00:00:00	129.017120	108.654396	107.418358	278.503174
2021-06-17 00:00:00	130.642838	108.061890	108.950676	279.317291
2021-06-18 00:00:00	129.324432	106.387833	107.681885	275.864655
2021-06-21 00:00:00	131.148392	107.902016	108.765236	280.092133
2021-06-22 00:00:00	132.813782	107.873802	108.296761	280.190216
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2021-06-24 00:00:00	132.248749	107.911423	109.018997	285.977295
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2021-06-28 00:00:00	133.606812	106.274971	112.922989	288.272461
2021-06-29 00:00:00	135.143326	105.616631	114.396751	290.753998
2021-06-30 00:00:00	135.767868	105.936409	113.147469	289.145447
2021-07-02 00:00:00	138.741745	108.315826	115.206833	299.002991
2021-07-06 00:00:00	140.783798	108.842499	115.968102	299.552246
2021-07-07 00:00:00	143.311600	109.801796	116.992897	303.681610
2021-07-08 00:00:00	141.993179	109.425598	116.397545	303.230438
2021-07-09 00:00:00	143.846893	109.641922	116.866020	306.634003
2021-07-12 00:00:00	143.242218	110.629425	115.958336	305.604126
2021-07-13 00:00:00	144.372284	110.892761	115.802170	306.643829
2021-07-14 00:00:00	147.851746	111.605995	114.793068	309.240570
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2021-07-20 00:00:00	144.877823	110.360222	116.321434	306.948730
2021-07-21 00:00:00	144.134369	111.254135	116.566360	308.630737
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2021-07-23 00:00:00	147.266876	112.395302	118.349442	313.430786
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2021-07-27 00:00:00	145.492447	112.176567	117.379517	314.650543
2021-07-28 00:00:00	143.718033	112.737640	118.075104	311.129120
2021-07-29 00:00:00	144.372284	113.041954	118.633545	313.135742
2021-07-30 00:00:00	144.590378	110.597969	118.525780	312.476685
2021-08-03 00:00:00	146.077332	110.550415	119.642654	313.302917
2021-08-04 00:00:00	145.670883	109.437775	119.103813	311.581604
2021-08-05 00:00:00	145.779922	109.475815	119.730827	315.063599
2021-08-06 00:00:00	145.084976	108.838654	119.691643	316.558716
2021-08-09 00:00:00	145.035324	108.467789	120.661560	314.286560
2021-08-10 00:00:00	144.548874	109.190529	120.210892	314.935730
2021-08-11 00:00:00	144.807007	108.144455	118.996048	314.552155
2021-08-12 00:00:00	147.815125	109.970322	120.318657	316.489899
2021-08-13 00:00:00	148.023605	110.769135	120.563583	318.152252
2021-08-16 00:00:00	150.029022	112.604507	122.131142	322.873566
2021-08-17 00:00:00	149.105774	113.793221	123.140236	323.906372
2021-08-18 00:00:00	145.303391	111.539421	121.415939	319.234161
2021-08-19 00:00:00	145.640945	112.148041	123.169624	322.873566
2021-08-20 00:00:00	147.120178	112.994400	123.757454	327.201508
2021-08-23 00:00:00	148.629227	113.507935	123.287193	327.467072
2021-08-24 00:00:00	148.539856	113.812241	122.954094	325.490021
2021-08-25 00:00:00	147.288956	114.496948	122.209518	327.978577
2021-08-26 00:00:00	146.474869	114.496948	122.924690	327.772034
2021-08-27 00:00:00	147.527222	113.717155	122.062546	330.162201
2021-08-30 00:00:00	152.014587	114.658607	123.385170	331.480255
2021-08-31 00:00:00	150.733902	114.858315	123.806442	331.047455
2021-09-01 00:00:00	151.408997	106.765541	124.815544	332.365540
2021-09-02 00:00:00	152.540756	106.527802	125.883438	335.414734
2021-09-03 00:00:00	153.186066	106.147415	126.324310	337.706512
2021-09-07 00:00:00	155.558823	103.684395	125.785461	335.896698
2021-09-08 00:00:00	153.990234	104.949181	126.441872	334.745911
2021-09-09 00:00:00	152.957733	102.010696	125.383781	335.513123
2021-09-10 00:00:00	147.894547	101.449623	126.187157	336.319672
2021-09-13 00:00:00	148.470367	102.210396	124.051361	333.880310
2021-09-14 00:00:00	147.050690	101.259430	124.472656	335.139313
2021-09-15 00:00:00	147.954117	102.486168	124.903725	338.788574
2021-09-16 00:00:00	147.715851	102.780983	124.854736	336.624603
2021-09-17 00:00:00	145.005569	102.448143	124.217918	329.906494
2021-09-20 00:00:00	141.908096	101.183342	122.336876	326.847412
2021-09-21 00:00:00	142.394531	101.896584	122.591599	325.726074
2021-09-22 00:00:00	144.797073	101.192863	122.121338	329.178589
2021-09-23 00:00:00	145.770004	102.096283	122.758156	337.381958

2021-09-24 00:00:00	145.859344	101.820488	121.847015	333.673737
2021-09-27 00:00:00	144.320541	102.438629	118.133904	329.031036
2021-09-28 00:00:00	140.885513	102.077255	116.331223	318.899750
2021-09-29 00:00:00	141.798889	103.503716	117.036613	318.230865
2021-09-30 00:00:00	140.478485	102.581284	115.733597	314.680023
2021-10-01 00:00:00	141.620163	103.741447	114.832268	319.539093
2021-10-04 00:00:00	138.135513	103.399117	113.186348	314.257050
2021-10-05 00:00:00	140.091293	104.140869	113.529236	319.794830
2021-10-06 00:00:00	140.974899	103.960182	114.126862	319.863678
2021-10-07 00:00:00	142.255554	105.434196	115.518066	320.906311
2021-10-08 00:00:00	141.868362	105.728989	115.988327	319.863678
2021-10-12 00:00:00	140.488403	103.246956	114.940033	322.322723
2021-10-13 00:00:00	139.892731	103.208916	114.626518	325.736176
2021-10-14 00:00:00	142.722168	104.825920	115.629684	334.476929
2021-10-15 00:00:00	143.794373	105.230171	115.551003	337.219482
2021-10-18 00:00:00	145.492004	103.401421	114.892067	338.561188
2021-10-19 00:00:00	147.686081	103.420662	117.370483	345.032928
2021-10-20 00:00:00	148.182465	104.344673	121.274956	341.145935
2021-10-21 00:00:00	148.400879	104.681549	122.986252	342.448151
2021-10-22 00:00:00	147.616577	105.047295	124.628693	349.028412
2021-10-25 00:00:00	147.566940	104.431297	124.490997	351.642761
2021-10-26 00:00:00	148.242035	105.384163	126.015419	351.544067
2021-10-27 00:00:00	147.775421	104.335045	125.602348	349.284912
2021-10-28 00:00:00	151.468567	105.557411	125.602348	351.524353
2021-10-29 00:00:00	148.718567	110.369919	126.762871	353.961121
2021-11-01 00:00:00	147.884628	110.504669	126.812057	350.537811
2021-11-02 00:00:00	148.936981	112.160172	125.602348	356.634644
2021-11-03 00:00:00	150.396362	113.161171	126.576012	357.226593
2021-11-04 00:00:00	149.870178	112.670296	126.959572	361.863281
2021-11-05 00:00:00	150.407074	112.785805	122.317467	363.500946
2021-11-08 00:00:00	149.571930	111.707794	124.707375	361.991547
2021-11-09 00:00:00	149.939789	111.274666	124.343475	362.524292
2021-11-10 00:00:00	147.066452	112.371925	125.710533	359.830994
2021-11-11 00:00:00	147.016739	112.256416	125.149940	361.281219
2021-11-12 00:00:00	149.124527	112.583672	126.330139	366.233704
2021-11-15 00:00:00	149.134445	112.458534	127.303802	363.491119
2021-11-16 00:00:00	150.128677	112.054291	128.729874	366.164612
2021-11-17 00:00:00	152.604309	112.949417	126.497330	367.762848
2021-11-18 00:00:00	156.959030	112.679916	125.533501	365.789734
2021-11-19 00:00:00	159.623596	111.881035	124.746704	364.813049
2021-11-22 00:00:00	160.090866	111.313179	123.192787	358.410370
2021-11-23 00:00:00	160.478622	114.422035	122.425659	355.845398
2021-11-24 00:00:00	161.005554	114.210297	123.005920	357.492920
2021-11-26 00:00:00	155.905167	112.140923	123.802544	348.840973
2021-11-29 00:00:00	159.315353	112.506668	125.917068	360.896484
2021-11-30 00:00:00	164.346176	110.957054	123.694359	352.589844
2021-12-01 00:00:00	163.819229	111.563431	124.648354	355.292969
2021-12-02 00:00:00	162.815063	112.487419	126.261299	360.383484

2021-12-03 00:00:00	160.906128	114.393166	128.120102	356.555756
2021-12-06 00:00:00	164.366058	116.799423	130.283783	357.354828
2021-12-07 00:00:00	170.192230	116.953423	130.234634	366.342224
2021-12-08 00:00:00	174.069748	117.299919	130.185425	369.489227
2021-12-09 00:00:00	173.552719	119.494423	130.342789	366.450714
2021-12-10 00:00:00	178.414520	120.764931	132.152435	374.333160
2021-12-13 00:00:00	174.725922	121.765930	133.716202	372.636322
2021-12-14 00:00:00	173.324066	122.516678	130.746033	364.753876
2021-12-15 00:00:00	178.265381	125.346428	133.322800	370.248871
2021-12-16 00:00:00	171.266006	126.838295	133.844040	395.208374
2021-12-17 00:00:00	170.152481	124.672668	134.847214	390.907074
2021-12-20 00:00:00	168.770493	125.952797	132.752380	380.587860
2021-12-21 00:00:00	171.991791	125.076927	133.037567	387.602203
2021-12-22 00:00:00	174.626495	127.098175	136.696198	398.256805
2021-12-23 00:00:00	175.262817	128.099182	136.863373	397.881927
2021-12-29 00:00:00	178.344925	130.284073	138.859879	409.828979
2021-12-30 00:00:00	177.171738	130.832687	138.673019	408.260284
2021-12-31 00:00:00	176.545380	130.322540	138.417313	408.970612
2022-01-04 00:00:00	178.663086	130.091553	133.529343	398.858582
2022-01-05 00:00:00	173.910645	130.774933	132.929398	391.834412
2022-01-06 00:00:00	171.007523	130.158920	132.909729	372.912567
2022-01-07 00:00:00	171.176529	129.822067	133.322800	365.760132
2022-01-10 00:00:00	171.196426	131.275436	133.027740	367.979858
2022-01-11 00:00:00	174.069748	131.833664	133.460480	370.061432
2022-01-12 00:00:00	174.517120	132.141678	131.513184	373.078186
2022-01-13 00:00:00	171.196426	129.846603	127.960075	357.430634
2022-01-14 00:00:00	172.071350	132.131943	126.489517	349.507996
2022-01-18 00:00:00	168.820206	133.016907	124.920227	344.483368
2022-01-19 00:00:00	165.270798	131.490112	124.407013	339.992859
2022-01-20 00:00:00	163.560730	129.370087	123.084473	338.954285
2022-01-21 00:00:00	161.472855	128.348969	124.189880	331.971252
2022-01-24 00:00:00	160.687393	128.524017	122.206078	335.304535
2022-01-25 00:00:00	158.858017	129.428421	121.663246	331.298706
2022-01-26 00:00:00	158.768539	130.537079	118.504959	326.293823
2022-01-27 00:00:00	158.301254	132.229202	118.870140	329.725983
2022-01-28 00:00:00	169.347153	134.125565	123.716133	339.112549
2022-01-31 00:00:00	173.771454	133.123901	125.798630	349.725555
2022-02-01 00:00:00	173.602463	133.230865	125.542015	349.567352
2022-02-02 00:00:00	174.825348	134.806290	128.344986	355.551361
2022-02-03 00:00:00	171.902313	136.858246	128.414093	341.783081
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2022-02-07 00:00:00	170.886917	138.608719	126.380943	340.210419
2022-02-08 00:00:00	174.042633	139.561752	126.973114	341.308350
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2022-02-11 00:00:00	167.880508	138.103027	123.854309	325.591583
2022-02-14 00:00:00	168.119446	139.065781	121.179634	322.574829
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2022-02-16 00:00:00	171.772903	141.856827	122.067909	330.082062
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2022-02-18 00:00:00	166.546555	140.067444	115.267708	317.678772
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2022-02-23 00:00:00	159.349121	142.722336	115.721718	309.746216
2022-02-24 00:00:00	162.007095	141.273331	117.172554	312.723419
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2022-03-02 00:00:00	165.809875	145.455048	118.791176	314.859802
2022-03-03 00:00:00	165.481369	146.271927	119.393227	315.473083
2022-03-04 00:00:00	162.435135	146.417816	119.827492	310.735291
2022-03-07 00:00:00	158.582581	145.338348	117.310730	301.694916
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2022-03-14 00:00:00	149.941650	147.915436	114.014259	304.325928
2022-03-15 00:00:00	154.391525	151.591446	115.948723	312.782745
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2022-03-17 00:00:00	159.896622	154.226883	119.620224	316.017120
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2022-03-21 00:00:00	164.635193	155.646713	120.172935	320.962585
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2022-03-24 00:00:00	173.286057	155.870377	116.284279	321.743958
2022-03-25 00:00:00	173.933136	156.891495	117.399551	324.137604
2022-03-28 00:00:00	174.809174	157.513885	118.426003	327.134552
2022-03-29 00:00:00	178.154053	157.718109	118.623390	336.976105
2022-03-30 00:00:00	176.969406	159.244919	118.810913	334.770386
2022-03-31 00:00:00	173.823624	157.650040	116.817253	333.553833
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2022-04-04 00:00:00	177.636383	157.436096	117.330467	340.714905
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2022-04-06 00:00:00	171.056137	164.262970	118.376656	336.550812
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2022-04-11 00:00:00	165.003525	165.157654	118.475349	323.702393
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2022-04-13 00:00:00	169.632584	155.890747	118.392654	322.999603
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2022-04-18 00:00:00	164.326599	156.292862	115.231689	311.105042
2022-04-19 00:00:00	166.646088	153.340790	118.888115	318.019562
2022-04-20 00:00:00	166.476868	153.684036	121.523895	321.094910
2022-04-21 00:00:00	165.670517	155.469025	122.247261	319.745697
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2022-04-25 00:00:00	162.146454	153.291748	118.917831	314.299408
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2022-04-29 00:00:00	156.939987	144.053055	112.467072	297.970337
2022-05-02 00:00:00	157.248627	145.023987	111.803177	302.176636
2022-05-03 00:00:00	158.761780	146.720703	111.406815	302.394867
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2022-05-05 00:00:00	156.063980	149.251022	111.981537	296.323578
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2022-05-09 00:00:00	151.597595	148.054520	106.412682	285.202728
2022-05-10 00:00:00	154.040131	149.162766	105.778503	285.301971
2022-05-11 00:00:00	146.054504	149.035278	104.876785	278.704865
2022-05-12 00:00:00	142.126480	151.320419	106.987404	278.972717
2022-05-13 00:00:00	146.662643	150.545639	108.880020	284.488464
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2022-05-17 00:00:00	148.786179	151.800995	113.497612	288.754242
2022-05-18 00:00:00	140.391785	149.496216	111.713989	271.978790
2022-05-19 00:00:00	136.932343	148.799896	111.416725	271.433136
2022-05-20 00:00:00	137.171600	148.103561	112.209435	274.448975
2022-05-24 00:00:00	139.933182	146.240128	112.734619	277.087799
2022-05-25 00:00:00	140.092697	149.035278	112.159897	277.415222
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2022-05-31 00:00:00	148.387390	144.533600	116.391037	296.085449
2022-06-01 00:00:00	148.257797	143.209595	114.032700	296.273956
2022-06-02 00:00:00	150.750183	143.925552	116.440582	304.180542
2022-06-03 00:00:00	144.937912	144.337463	115.509140	302.523834
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2022-06-07 00:00:00	148.257797	146.269562	115.816315	304.091278
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2022-06-09 00:00:00	142.206253	142.630951	111.684265	293.079559
2022-06-10 00:00:00	136.713013	140.443863	108.632301	283.734528
2022-06-13 00:00:00	131.478958	136.736633	104.946152	274.300201
2022-06-14 00:00:00	132.356277	134.971268	102.003189	272.931152
2022-06-15 00:00:00	135.018158	135.432220	103.846260	278.952881
2022-06-16 00:00:00	129.664490	136.471817	101.141098	268.744720
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2022-06-22 00:00:00	134.938416	144.719955	104.480431	284.121429
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2022-06-24 00:00:00	141.229233	149.407959	108.453926	296.988220
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2022-06-29 00:00:00	138.806610	151.173309	108.107117	277.583832
2022-06-30 00:00:00	136.304245	150.212173	107.661217	275.441010
2022-07-05 00:00:00	141.129532	150.967346	108.305305	272.980774
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2022-07-11 00:00:00	144.429459	150.280838	107.899033	272.683136
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2022-07-13 00:00:00	145.047577	149.221603	105.243423	270.965057
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2022-07-19 00:00:00	150.540817	148.231689	109.413742	278.800201
2022-07-20 00:00:00	152.574615	146.202332	107.721725	280.413025
2022-07-21 00:00:00	154.877594	146.261734	110.170174	286.734924
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2022-07-25 00:00:00	152.484894	148.706848	107.990456	288.009247
2022-07-26 00:00:00	151.138992	149.350296	108.577682	283.917419
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2022-07-28 00:00:00	156.871521	148.241592	109.841721	302.335510
2022-07-29 00:00:00	162.015808	142.064438	108.328857	304.904114
2022-08-02 00:00:00	159.523407	138.975861	108.129799	301.140869
2022-08-03 00:00:00	165.624817	139.777710	109.095245	306.805664
2022-08-04 00:00:00	165.305786	137.520676	109.204727	309.234833
2022-08-05 00:00:00	165.076172	136.649536	108.736938	307.980438
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2022-08-10 00:00:00	168.959732	139.520325	109.752144	315.078888
2022-08-11 00:00:00	168.210968	140.648849	109.971107	313.027985
2022-08-12 00:00:00	171.814987	141.163605	110.956467	319.021332
2022-08-15 00:00:00	172.903183	140.856720	111.374489	318.911804
2022-08-16 00:00:00	172.743439	141.114120	111.503876	319.359833
2022-08-17 00:00:00	174.260925	140.015289	110.030830	317.040161
2022-08-18 00:00:00	173.861588	139.866791	109.443596	318.045654
2022-08-19 00:00:00	171.235947	140.421173	109.543129	313.894135
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2022-09-07 00:00:00	155.701721	137.312790	104.208298	285.490448
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2022-09-19 00:00:00	154.224152	141.223007	103.601166	273.762604
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2022-09-21 00:00:00	153.465424	138.896667	100.177322	264.244934
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2022-10-03 00:00:00	142.214081	136.926727	99.052628	263.717285
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2022-10-24 00:00:00	149.202484	150.889999	98.290001	275.309998
2022-10-25 00:00:00	152.087708	149.820007	97.949997	280.609985
2022-10-26 00:00:00	149.102661	152.509995	98.419998	279.869995
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2022-11-15 00:00:00	150.039993	153.039993	103.139999	292.649994
2022-11-16 00:00:00	148.789993	151.869995	103.610001	291.510010
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Date		AIG	AMZN	AXP	BA	BAC \
2021-03-16 00:00:00		45.678761	154.593002	140.325363	255.210007	36.480057
2021-03-17 00:00:00		46.006893	156.786499	141.676697	263.589996	36.780510
2021-03-18 00:00:00		46.151665	151.399506	139.620300	256.059998	37.739998
2021-03-19 00:00:00		45.196201	153.748001	137.789124	255.820007	37.342628
2021-03-22 00:00:00		44.617134	155.543503	137.044891	251.229996	36.499443
2021-03-23 00:00:00		43.410744	156.875000	133.255234	241.250000	35.762867
2021-03-24 00:00:00		43.420399	154.353500	135.546661	239.240005	35.762867
2021-03-25 00:00:00		44.877716	152.313004	139.326523	247.190002	36.499443
2021-03-26 00:00:00		45.186550	152.601501	140.746414	244.869995	37.488010
2021-03-29 00:00:00		44.954922	153.786499	139.414658	250.520004	37.129410
2021-03-30 00:00:00		45.688408	152.764496	140.511414	252.009995	37.788460
2021-03-31 00:00:00		44.597832	154.703995	138.920303	254.720001	37.497700
2021-04-01 00:00:00		44.761898	158.050003	141.994537	252.960007	38.273052
2021-04-05 00:00:00		45.118992	161.336502	143.457977	259.359985	38.573498
2021-04-06 00:00:00		45.032127	161.190994	143.546341	255.169998	38.466885
2021-04-07 00:00:00		45.437477	163.969498	144.508911	252.580002	38.815792
2021-04-08 00:00:00		44.453068	164.964996	144.420502	254.949997	38.476582
2021-04-09 00:00:00		44.974220	168.610001	145.147324	252.360001	38.757637
2021-04-12 00:00:00		45.514687	168.969498	144.941071	249.520004	38.825485
2021-04-13 00:00:00		45.061081	170.000000	143.389221	253.270004	38.108284
2021-04-14 00:00:00		45.833176	166.649994	144.793747	252.429993	38.651028
2021-04-15 00:00:00		45.032127	168.954498	145.883972	251.110001	37.546162
2021-04-16 00:00:00		45.456776	169.972000	147.317963	248.179993	37.943527
2021-04-19 00:00:00		45.099689	168.600494	145.893784	244.149994	37.962906
2021-04-20 00:00:00		43.941551	166.734497	142.515076	234.059998	36.906502
2021-04-21 00:00:00		45.128647	168.100998	144.558014	235.919998	37.526779
2021-04-22 00:00:00		44.839108	165.451996	144.538361	234.330002	37.177868
2021-04-23 00:00:00		45.688408	167.044006	141.758804	238.380005	37.972599
2021-04-26 00:00:00		45.871777	170.449997	147.661728	241.440002	38.195507
2021-04-27 00:00:00		46.750031	170.871506	147.681366	242.470001	38.651028
2021-04-28 00:00:00		46.528057	172.925003	149.822525	235.460007	38.796406
2021-04-29 00:00:00		47.232586	173.565506	151.875305	235.940002	39.843124
2021-04-30 00:00:00		46.759686	173.371002	150.618088	234.309998	39.280998
2021-05-03 00:00:00		47.338749	169.324493	152.042267	235.190002	39.310078
2021-05-04 00:00:00		46.711430	165.593506	151.777069	233.630005	39.736515
2021-05-05 00:00:00		47.165028	163.526993	153.603943	228.179993	40.114494
2021-05-06 00:00:00		48.419674	165.318497	154.085220	229.809998	40.715389
2021-05-07 00:00:00		49.404087	164.580505	156.147797	235.470001	40.880146
2021-05-10 00:00:00		50.108616	159.524506	155.853149	232.929993	40.754154
2021-05-11 00:00:00		48.622353	161.195496	151.678864	228.880005	40.288948
2021-05-12 00:00:00		48.332817	157.597000	149.586807	220.779999	39.910965
2021-05-13 00:00:00		49.075954	158.073502	151.335114	222.639999	40.550625
2021-05-14 00:00:00		50.089321	161.145004	154.350403	228.470001	41.054604
2021-05-17 00:00:00		49.770832	163.519501	154.065582	227.979996	41.422894
2021-05-18 00:00:00		49.326878	161.613998	152.228882	227.550003	40.860760
2021-05-19 00:00:00		48.902229	161.589996	151.973511	224.419998	40.676624

2021-05-20 00:00:00	48.767117	162.384003	152.759293	227.649994	40.579704
2021-05-21 00:00:00	49.519905	160.154007	154.075394	234.820007	41.093372
2021-05-25 00:00:00	49.027691	162.952499	155.195084	240.740005	40.715389
2021-05-26 00:00:00	49.577812	163.257996	155.754913	241.369995	40.744465
2021-05-27 00:00:00	50.871059	161.505493	156.894272	250.699997	41.238747
2021-05-28 00:00:00	50.996525	161.153503	157.277313	247.020004	41.083672
2021-06-01 00:00:00	51.681759	160.932495	160.842636	254.729996	41.597340
2021-06-02 00:00:00	51.189552	161.699493	161.196228	255.619995	41.616726
2021-06-03 00:00:00	51.672104	159.350494	161.589127	250.320007	42.093632
2021-06-04 00:00:00	51.556290	160.311005	162.060562	249.919998	42.113098
2021-06-07 00:00:00	51.218502	159.900497	162.964172	252.660004	41.967102
2021-06-08 00:00:00	51.372921	163.205505	163.543655	252.759995	41.733521
2021-06-09 00:00:00	50.340248	164.057495	161.166763	248.059998	41.188496
2021-06-10 00:00:00	49.770832	167.482498	159.339890	248.339996	40.575340
2021-06-11 00:00:00	50.205139	167.341507	161.579285	247.279999	40.740791
2021-06-14 00:00:00	49.622478	169.193497	160.891754	245.139999	40.254162
2021-06-15 00:00:00	50.040047	169.156494	163.307938	246.539993	40.283360
2021-06-16 00:00:00	50.185715	170.762497	161.746246	242.270004	40.507210
2021-06-17 00:00:00	47.359856	174.462006	159.241699	239.220001	38.735867
2021-06-18 00:00:00	45.495365	174.345001	155.352234	237.350006	37.743141
2021-06-21 00:00:00	46.369347	172.697998	161.962341	245.279999	38.687206
2021-06-22 00:00:00	46.175121	175.272003	161.569473	243.779999	38.901325
2021-06-23 00:00:00	46.349922	175.190994	163.062393	243.570007	39.125172
2021-06-24 00:00:00	46.816044	172.453995	165.213379	250.570007	39.738335
2021-06-25 00:00:00	47.602623	170.072998	166.431290	248.380005	40.507210
2021-06-28 00:00:00	46.573273	172.194504	161.844482	239.960007	40.448814
2021-06-29 00:00:00	46.029465	172.406998	161.323914	235.759995	39.796730
2021-06-30 00:00:00	46.223682	172.007996	162.286453	239.559998	40.127636
2021-07-02 00:00:00	46.660671	175.548996	165.930038	236.679993	40.049774
2021-07-06 00:00:00	45.262310	183.787003	166.973862	236.139999	38.998653
2021-07-07 00:00:00	45.437103	184.828995	168.372208	231.779999	38.687206
2021-07-08 00:00:00	43.562908	186.570496	164.945282	236.770004	37.743141
2021-07-09 00:00:00	45.514790	185.966995	169.317566	239.589996	38.969456
2021-07-12 00:00:00	46.068306	185.927505	170.952240	238.289993	39.543678
2021-07-13 00:00:00	45.378838	183.867996	169.987198	228.199997	38.794266
2021-07-14 00:00:00	45.068089	184.084000	169.888718	224.449997	37.821003
2021-07-15 00:00:00	46.680092	181.559998	170.213684	222.759995	37.791801
2021-07-16 00:00:00	45.543922	178.681503	167.417007	217.740005	36.906132
2021-07-19 00:00:00	43.630886	177.479507	160.326797	206.990005	35.942600
2021-07-20 00:00:00	45.864380	178.659500	166.294373	217.149994	36.682285
2021-07-21 00:00:00	46.893730	179.259995	169.878860	222.539993	37.431694
2021-07-22 00:00:00	46.184837	181.901505	168.293411	220.869995	36.945061
2021-07-23 00:00:00	45.942070	182.832001	170.538651	221.520004	36.692017
2021-07-26 00:00:00	46.330502	184.990997	169.977356	225.850006	37.110523
2021-07-27 00:00:00	46.048882	181.319504	170.302338	222.270004	36.964531
2021-07-28 00:00:00	45.592480	181.516006	167.426849	231.570007	37.110523
2021-07-29 00:00:00	46.485874	179.996002	169.327423	231.630005	37.645817
2021-07-30 00:00:00	45.980911	166.379501	167.929062	226.479996	37.334373

2021-08-03 00:00:00	46.359638	168.311996	166.461792	229.089996	37.519291
2021-08-04 00:00:00	45.728428	167.735992	165.496765	226.630005	37.246777
2021-08-05 00:00:00	47.253036	168.799500	167.042786	229.940002	37.976727
2021-08-06 00:00:00	49.476822	167.246994	168.746414	231.330002	39.076511
2021-08-09 00:00:00	50.350796	167.093506	168.175262	232.270004	39.582607
2021-08-10 00:00:00	51.603493	166.033997	166.904938	235.779999	40.322289
2021-08-11 00:00:00	52.516319	164.605499	168.066940	239.490005	40.828384
2021-08-12 00:00:00	52.322102	165.175003	165.949738	238.179993	41.023037
2021-08-13 00:00:00	53.030994	164.698502	163.546951	234.460007	40.516941
2021-08-16 00:00:00	53.030994	164.949493	163.221985	229.059998	40.186031
2021-08-17 00:00:00	52.448341	162.098007	162.138748	222.220001	39.991379
2021-08-18 00:00:00	52.205570	160.061005	159.657181	219.000000	39.699398
2021-08-19 00:00:00	51.428699	159.387497	156.604462	212.160004	39.115437
2021-08-20 00:00:00	52.021065	159.997498	157.313477	212.669998	39.290627
2021-08-23 00:00:00	52.594006	163.293503	158.002823	219.399994	39.816193
2021-08-24 00:00:00	52.788223	165.289001	158.741364	221.429993	40.370956
2021-08-25 00:00:00	53.341740	164.959000	163.645386	221.029999	41.023037
2021-08-26 00:00:00	52.458054	165.800003	162.985626	216.500000	40.915981
2021-08-27 00:00:00	53.419422	167.481506	166.077744	221.750000	41.353954
2021-08-30 00:00:00	52.458054	171.078506	161.754700	217.660004	40.546139
2021-08-31 00:00:00	52.982437	173.539505	163.428772	219.500000	40.633732
2021-09-01 00:00:00	53.001865	173.949997	161.931946	218.119995	40.088703
2021-09-02 00:00:00	53.633068	173.156006	159.578415	220.830002	40.127834
2021-09-03 00:00:00	53.506824	173.902496	156.870346	218.169998	40.157185
2021-09-07 00:00:00	53.089256	175.464493	157.283966	214.240005	40.421307
2021-09-08 00:00:00	53.225212	176.274994	156.505981	211.380005	39.893055
2021-09-09 00:00:00	53.108673	174.207993	156.959000	213.940002	40.039791
2021-09-10 00:00:00	52.865910	173.457504	156.299210	210.300003	39.394146
2021-09-13 00:00:00	53.526249	172.858505	158.987549	214.479996	40.049576
2021-09-14 00:00:00	52.856197	172.500000	157.047607	211.570007	38.973499
2021-09-15 00:00:00	53.188324	173.789505	158.879242	214.220001	39.266975
2021-09-16 00:00:00	53.090633	174.412003	160.149567	213.360001	39.570236
2021-09-17 00:00:00	52.563148	173.126007	161.419876	213.360001	39.619144
2021-09-20 00:00:00	51.996590	167.786499	158.120987	209.500000	38.259380
2021-09-21 00:00:00	51.732845	167.181503	160.779800	208.509995	38.278946
2021-09-22 00:00:00	52.465469	169.002502	164.935440	216.979996	39.266975
2021-09-23 00:00:00	53.256699	170.800003	170.715912	221.100006	40.783264
2021-09-24 00:00:00	53.539982	171.276001	173.039917	221.389999	41.223476
2021-09-27 00:00:00	55.708542	170.289993	174.073898	224.160004	42.319118
2021-09-28 00:00:00	54.692635	165.798004	170.499283	218.410004	42.221291
2021-09-29 00:00:00	54.546108	165.056000	168.923676	225.360001	42.133251
2021-09-30 00:00:00	53.618122	164.251999	164.974838	219.940002	41.526737
2021-10-01 00:00:00	54.194454	164.162994	171.287048	226.000000	42.143032
2021-10-04 00:00:00	54.526573	159.488998	170.026581	223.789993	42.397377
2021-10-05 00:00:00	56.118813	161.050003	172.094543	224.419998	43.258240
2021-10-06 00:00:00	55.991821	163.100494	170.755280	224.990005	43.277805
2021-10-07 00:00:00	55.874596	165.121506	172.058380	226.479996	43.160412
2021-10-08 00:00:00	56.275105	164.431000	172.907364	226.389999	43.375629

2021-10-12 00:00:00	56.069965	162.366501	172.670456	223.570007	42.593029
2021-10-13 00:00:00	54.907543	164.214005	166.559708	221.779999	42.201725
2021-10-14 00:00:00	56.431393	164.992996	169.313980	217.440002	44.089748
2021-10-15 00:00:00	56.929573	170.451004	173.558929	217.039993	45.361473
2021-10-18 00:00:00	56.548611	172.337006	174.556000	216.979996	45.273434
2021-10-19 00:00:00	57.281231	172.207504	175.039719	215.970001	45.469082
2021-10-20 00:00:00	58.228752	170.753006	177.300400	216.169998	46.065819
2021-10-21 00:00:00	57.886864	171.750504	175.197678	214.339996	45.811470
2021-10-22 00:00:00	58.619484	166.777496	184.684647	212.970001	46.535378
2021-10-25 00:00:00	58.258060	166.018494	179.975708	212.869995	46.476677
2021-10-26 00:00:00	57.857563	168.803497	178.633133	209.809998	46.916893
2021-10-27 00:00:00	57.193317	169.624496	175.750504	206.610001	46.016903
2021-10-28 00:00:00	58.512039	172.328506	172.374283	207.850006	46.740807
2021-10-29 00:00:00	57.720806	168.621506	171.554916	207.029999	46.740807
2021-11-01 00:00:00	58.795319	165.905502	171.979416	214.580002	46.809288
2021-11-02 00:00:00	58.590183	165.637497	170.952713	212.770004	46.838634
2021-11-03 00:00:00	59.664696	169.199997	170.399887	213.380005	47.317974
2021-11-04 00:00:00	58.990677	173.850006	170.320923	213.029999	46.300602
2021-11-05 00:00:00	57.593819	175.949493	174.427658	224.460007	45.948425
2021-11-08 00:00:00	57.789181	174.449005	177.744644	222.679993	46.310379
2021-11-09 00:00:00	57.398449	178.811493	177.557068	220.789993	45.860386
2021-11-10 00:00:00	57.496136	174.102493	179.067490	218.500000	46.202774
2021-11-11 00:00:00	57.496136	173.625000	178.978622	219.380005	46.457115
2021-11-12 00:00:00	56.861191	176.257507	179.561081	220.960007	45.889729
2021-11-15 00:00:00	56.743977	177.283997	180.785217	233.089996	46.026688
2021-11-16 00:00:00	55.864830	177.035004	178.603500	225.800003	46.056038
2021-11-17 00:00:00	55.630390	177.449997	177.310287	226.619995	45.498432
2021-11-18 00:00:00	54.819622	184.802994	173.953812	227.250000	45.312565
2021-11-19 00:00:00	53.676739	183.828506	171.317993	214.130005	44.412575
2021-11-22 00:00:00	55.620621	178.628494	168.711792	209.899994	45.273434
2021-11-23 00:00:00	57.535210	179.001999	168.662445	209.130005	46.466896
2021-11-24 00:00:00	56.548611	179.020493	169.412720	210.600006	46.594070
2021-11-26 00:00:00	54.751247	175.227997	154.812073	199.210007	44.764744
2021-11-29 00:00:00	53.676739	178.078506	155.838745	198.500000	44.598438
2021-11-30 00:00:00	51.381187	175.353500	150.349960	197.850006	43.502804
2021-12-01 00:00:00	50.521580	172.186005	148.138626	188.190002	42.886501
2021-12-02 00:00:00	52.709671	171.867996	154.762726	202.380005	44.125031
2021-12-03 00:00:00	52.084503	169.489502	153.943344	198.490005	43.122410
2021-12-06 00:00:00	53.500904	171.368500	158.622650	205.880005	43.397644
2021-12-07 00:00:00	53.911171	176.164505	164.812363	208.830002	43.948097
2021-12-08 00:00:00	53.696274	176.158005	166.767014	211.029999	43.407471
2021-12-09 00:00:00	53.539982	174.171005	165.868683	207.559998	43.731850
2021-12-10 00:00:00	53.129711	172.212006	164.891342	205.059998	43.761333
2021-12-13 00:00:00	52.592457	169.567505	161.209106	197.399994	42.837353
2021-12-14 00:00:00	53.393456	169.091507	160.764893	195.500000	43.377987
2021-12-15 00:00:00	53.413105	173.315002	160.162689	195.429993	43.191219
2021-12-16 00:00:00	54.317078	168.871002	160.912949	190.789993	44.233150
2021-12-17 00:00:00	53.167461	170.017502	157.961227	192.630005	43.132244

2021-12-20 00:00:00	51.988361	167.078995	153.893982	188.479996	42.424515
2021-12-21 00:00:00	54.179516	170.417007	158.849716	199.520004	43.436954
2021-12-22 00:00:00	54.307255	171.037003	160.389740	201.690002	43.525425
2021-12-23 00:00:00	55.584610	171.068497	162.087723	204.220001	43.663036
2021-12-29 00:00:00	55.790951	169.201004	161.732315	203.660004	43.869465
2021-12-30 00:00:00	55.751652	168.644501	162.058090	202.710007	43.771164
2021-12-31 00:00:00	55.869560	166.716995	161.505280	201.320007	43.731850
2022-01-04 00:00:00	57.972286	167.522003	171.387085	213.630005	47.172203
2022-01-05 00:00:00	57.176388	164.356995	169.560776	213.070007	46.376007
2022-01-06 00:00:00	58.158974	163.253998	171.114578	211.339996	47.309818
2022-01-07 00:00:00	59.681976	162.554001	172.579300	215.500000	48.341923
2022-01-10 00:00:00	60.340302	161.485992	171.945923	209.309998	48.096188
2022-01-11 00:00:00	60.694031	165.362000	173.568970	216.020004	48.371410
2022-01-12 00:00:00	60.300999	165.207001	172.668365	217.449997	48.027378
2022-01-13 00:00:00	60.792290	161.214005	171.500549	223.899994	47.929081
2022-01-14 00:00:00	60.831593	162.138000	166.661041	225.960007	47.093567
2022-01-18 00:00:00	59.839188	158.917496	164.454071	225.009995	45.471684
2022-01-19 00:00:00	57.815067	156.298996	159.723434	217.080002	45.648617
2022-01-20 00:00:00	57.815067	151.667496	159.258301	214.190002	44.970379
2022-01-21 00:00:00	56.321548	142.643005	157.100800	205.440002	44.154518
2022-01-24 00:00:00	56.459103	144.544006	157.288818	204.199997	43.790821
2022-01-25 00:00:00	57.196041	139.985992	171.322403	204.100006	44.655830
2022-01-26 00:00:00	56.626148	138.872498	173.509583	194.270004	45.117821
2022-01-27 00:00:00	55.437225	139.637497	170.124893	189.750000	44.695148
2022-01-28 00:00:00	55.967815	143.977997	175.231628	190.570007	45.088326
2022-01-31 00:00:00	56.744053	149.573502	177.963120	200.240005	45.353725
2022-02-01 00:00:00	58.080364	151.193497	181.644699	208.339996	46.140095
2022-02-02 00:00:00	59.200508	150.612503	182.258316	207.520004	46.090946
2022-02-03 00:00:00	58.453747	138.845505	182.139526	206.389999	45.638790
2022-02-04 00:00:00	59.927624	157.639496	183.930847	206.449997	47.457256
2022-02-07 00:00:00	60.713680	157.935501	185.929977	211.919998	47.683338
2022-02-08 00:00:00	61.607830	161.413498	191.996674	213.270004	48.538517
2022-02-09 00:00:00	61.322884	161.189499	194.371902	215.860001	48.440216
2022-02-10 00:00:00	61.136196	159.003494	193.491104	218.750000	48.214138
2022-02-11 00:00:00	59.681976	153.293503	189.829300	212.300003	47.103397
2022-02-14 00:00:00	57.962460	155.167007	190.363739	210.039993	46.611916
2022-02-15 00:00:00	59.328243	156.510498	195.935593	217.729996	46.975609
2022-02-16 00:00:00	59.288944	158.100494	196.331467	218.929993	46.867485
2022-02-17 00:00:00	60.310825	154.652496	193.689041	213.580002	45.284920
2022-02-18 00:00:00	60.654724	152.601501	192.867615	209.029999	45.176796
2022-02-22 00:00:00	60.536819	150.197495	190.452820	198.740005	44.783615
2022-02-23 00:00:00	60.468037	144.826996	186.998840	196.419998	44.016907
2022-02-24 00:00:00	59.328243	151.358002	186.405029	198.429993	42.857010
2022-02-25 00:00:00	62.059818	153.788498	191.709686	201.479996	44.252811
2022-02-28 00:00:00	60.173267	153.563004	192.531113	205.339996	43.446785
2022-03-01 00:00:00	56.881618	151.141998	176.221283	194.910004	41.746273
2022-03-02 00:00:00	59.976746	152.052505	178.448059	197.809998	42.424515
2022-03-03 00:00:00	59.357719	147.898499	178.032394	188.850006	41.970142

2022-03-04 00:00:00	56.478756	145.641006	171.164047	180.839996	40.448978
2022-03-07 00:00:00	53.717705	137.453003	157.486786	169.169998	37.870914
2022-03-08 00:00:00	54.493942	136.014496	158.397263	173.800003	38.117851
2022-03-09 00:00:00	57.264824	139.279007	166.908463	178.559998	40.537876
2022-03-10 00:00:00	55.987469	146.817505	167.848679	178.389999	40.172405
2022-03-11 00:00:00	56.007122	145.524506	166.166214	176.229996	39.836567
2022-03-14 00:00:00	56.508236	141.852997	171.005707	175.520004	40.695923
2022-03-15 00:00:00	57.530121	147.366501	174.222137	179.889999	40.992252
2022-03-16 00:00:00	59.061485	153.104004	178.744965	188.990005	42.276344
2022-03-17 00:00:00	60.207546	157.238998	185.039276	190.190002	42.503529
2022-03-18 00:00:00	60.296463	161.250504	188.750580	192.830002	42.375122
2022-03-21 00:00:00	60.997932	161.491501	187.137390	185.899994	42.315857
2022-03-22 00:00:00	61.926632	164.889008	189.354263	191.039993	43.639458
2022-03-23 00:00:00	61.106609	163.408005	184.099106	186.039993	42.562798
2022-03-24 00:00:00	62.400864	163.649506	186.939468	189.050003	42.543041
2022-03-25 00:00:00	63.705006	164.773499	188.315094	188.949997	43.194965
2022-03-28 00:00:00	62.964012	168.990494	187.741089	188.160004	43.017166
2022-03-29 00:00:00	62.292183	169.315002	188.968292	193.800003	42.908512
2022-03-30 00:00:00	62.726898	166.300995	187.800476	194.910004	42.473900
2022-03-31 00:00:00	62.015553	162.997498	185.068985	191.500000	40.715675
2022-04-01 00:00:00	63.023293	163.559998	185.237213	190.759995	40.399593
2022-04-04 00:00:00	61.788319	168.346497	185.722153	191.179993	40.330452
2022-04-05 00:00:00	61.699398	164.054993	183.485504	182.649994	39.648888
2022-04-06 00:00:00	61.067093	158.755997	181.812958	178.720001	39.214275
2022-04-07 00:00:00	60.918892	157.784500	181.018967	177.970001	38.908066
2022-04-08 00:00:00	62.381104	154.460495	182.319107	175.199997	39.184639
2022-04-11 00:00:00	61.827839	151.121994	176.235214	175.029999	39.105618
2022-04-12 00:00:00	61.699398	150.787506	174.220459	176.279999	38.690758
2022-04-13 00:00:00	62.223026	155.541000	178.240005	182.869995	38.345039
2022-04-14 00:00:00	62.272423	151.706497	179.798218	181.940002	37.110336
2022-04-18 00:00:00	63.131973	152.785004	183.093246	179.850006	38.374672
2022-04-19 00:00:00	62.845459	158.115494	185.763031	185.979996	39.085861
2022-04-20 00:00:00	63.635845	153.998001	187.043350	183.550003	39.174763
2022-04-21 00:00:00	62.371227	148.296005	184.343796	181.020004	38.433937
2022-04-22 00:00:00	59.713554	144.350006	179.182861	176.919998	37.100460
2022-04-25 00:00:00	58.962692	146.074005	182.716110	175.910004	36.833759
2022-04-26 00:00:00	56.966972	139.391006	177.307068	167.039993	36.004036
2022-04-27 00:00:00	58.409420	138.167007	176.294754	154.460007	35.806484
2022-04-28 00:00:00	59.318363	144.596497	180.612045	154.220001	36.359634
2022-04-29 00:00:00	57.806751	124.281502	173.396713	148.839996	35.243458
2022-05-02 00:00:00	58.350143	124.500000	170.329926	148.610001	35.697826
2022-05-03 00:00:00	58.814491	124.253502	170.816238	153.580002	36.675716
2022-05-04 00:00:00	63.171490	125.928497	176.483322	156.970001	38.147484
2022-05-05 00:00:00	61.373363	116.406998	169.724503	150.470001	37.080704
2022-05-06 00:00:00	61.482040	114.772499	165.893524	148.899994	36.991802
2022-05-09 00:00:00	58.893532	108.789001	159.809616	133.309998	35.925014
2022-05-10 00:00:00	57.984589	108.859001	160.613525	132.949997	35.322479
2022-05-11 00:00:00	57.905552	105.372002	158.191864	129.389999	35.134804

2022-05-12	00:00:00	57.707954	106.930496	152.117859	123.139999	34.640923
2022-05-13	00:00:00	57.856155	113.055000	157.556656	127.199997	34.739697
2022-05-16	00:00:00	57.935192	110.810501	155.254089	124.050003	34.384102
2022-05-17	00:00:00	59.555481	115.368500	160.633377	132.050003	35.549667
2022-05-18	00:00:00	57.599277	107.112503	154.926590	125.519997	34.453247
2022-05-19	00:00:00	57.204086	107.319000	152.842377	127.139999	34.028507
2022-05-20	00:00:00	54.951488	107.591003	152.088104	120.699997	33.445724
2022-05-24	00:00:00	55.830788	104.099998	154.460129	119.400002	35.213825
2022-05-25	00:00:00	55.988869	106.775002	159.303421	122.059998	35.401501
2022-05-26	00:00:00	57.036129	111.077499	164.126907	127.730003	36.221344
2022-05-27	00:00:00	58.290867	115.146500	168.325104	132.229996	36.567062
2022-05-31	00:00:00	57.974712	120.209503	167.550980	131.399994	36.744862
2022-06-01	00:00:00	57.144806	121.683998	164.513977	130.649994	36.221344
2022-06-02	00:00:00	57.470837	125.511002	167.868576	140.500000	36.459774
2022-06-03	00:00:00	56.601418	122.349998	165.575928	139.250000	35.953110
2022-06-06	00:00:00	58.280987	124.790001	165.764511	139.240005	35.913376
2022-06-07	00:00:00	58.695934	123.000000	167.421951	140.820007	36.112064
2022-06-08	00:00:00	57.046009	121.180000	164.712479	139.630005	35.655075
2022-06-09	00:00:00	55.208363	116.150002	159.769913	133.729996	34.284107
2022-06-10	00:00:00	52.787811	109.650002	153.259216	127.000000	32.952877
2022-06-13	00:00:00	51.009445	103.669998	145.190323	115.860001	31.810408
2022-06-14	00:00:00	51.394760	102.309998	143.513046	122.160004	31.254072
2022-06-15	00:00:00	51.742691	107.669998	145.120865	133.720001	31.840210
2022-06-16	00:00:00	49.674973	103.660004	136.466415	133.360001	31.641521
2022-06-17	00:00:00	51.156174	106.220001	143.096191	136.800003	31.711063
2022-06-21	00:00:00	51.842102	108.680000	143.671829	136.750000	32.634972
2022-06-22	00:00:00	51.076649	108.949997	143.304611	137.160004	32.386608
2022-06-23	00:00:00	49.307156	112.440002	140.585205	133.970001	31.870016
2022-06-24	00:00:00	52.458443	116.459999	145.051376	141.529999	32.098511
2022-06-27	00:00:00	51.613457	113.220001	143.205368	138.720001	32.138245
2022-06-28	00:00:00	51.504112	107.400002	141.121155	138.699997	32.048836
2022-06-29	00:00:00	50.500072	108.919998	138.421600	138.449997	31.651455
2022-06-30	00:00:00	50.828125	106.209999	138.092850	136.720001	30.926233
2022-07-05	00:00:00	50.828125	113.500000	139.118927	137.699997	31.035513
2022-07-06	00:00:00	50.679008	114.330002	137.624634	136.309998	30.777214
2022-07-07	00:00:00	51.484230	116.330002	140.493683	139.970001	31.651455
2022-07-08	00:00:00	51.166119	115.540001	141.220901	139.070007	31.581915
2022-07-11	00:00:00	51.146236	111.750000	140.045395	136.990005	31.254072
2022-07-12	00:00:00	50.818184	109.220001	138.650711	147.149994	31.154728
2022-07-13	00:00:00	50.360901	110.400002	138.869873	143.949997	30.638132
2022-07-14	00:00:00	48.134121	110.629997	135.960983	147.149994	29.932777
2022-07-15	00:00:00	49.784325	113.550003	141.938171	147.740005	32.038902
2022-07-18	00:00:00	49.595444	113.760002	141.788742	147.720001	32.048836
2022-07-19	00:00:00	51.434525	118.209999	147.218018	156.130005	33.131702
2022-07-20	00:00:00	51.215824	122.769997	148.363632	158.380005	33.141636
2022-07-21	00:00:00	51.325172	124.629997	149.608887	161.410004	33.429741
2022-07-22	00:00:00	51.026947	122.419998	152.428116	158.160004	33.211178
2022-07-25	00:00:00	51.742691	121.139999	153.205154	156.639999	33.509212

2022-07-26 00:00:00	51.424583	114.809998	149.260223	155.919998	32.833664
2022-07-27 00:00:00	52.209919	120.970001	151.053375	156.089996	33.370132
2022-07-28 00:00:00	50.191906	122.279999	151.561432	159.089996	33.101898
2022-07-29 00:00:00	51.464348	134.949997	153.434296	159.309998	33.588692
2022-08-02 00:00:00	50.410603	134.160004	151.023499	163.279999	32.823730
2022-08-03 00:00:00	51.275471	139.520004	154.838913	166.639999	33.419804
2022-08-04 00:00:00	50.818184	142.570007	156.273438	166.500000	33.181377
2022-08-05 00:00:00	51.523994	140.800003	156.911011	165.039993	33.737709
2022-08-08 00:00:00	51.961395	139.410004	156.681885	165.889999	33.270786
2022-08-09 00:00:00	53.233837	137.830002	158.196106	164.850006	33.697968
2022-08-10 00:00:00	54.595745	142.690002	161.822266	169.020004	34.840443
2022-08-11 00:00:00	55.997425	140.639999	162.370178	167.880005	35.674946
2022-08-12 00:00:00	57.071045	143.550003	165.209335	169.990005	36.062393
2022-08-15 00:00:00	56.424881	143.179993	164.771011	170.470001	36.012718
2022-08-16 00:00:00	56.951756	144.779999	164.721207	172.080002	36.400166
2022-08-17 00:00:00	56.355297	142.100006	163.276703	167.199997	36.171673
2022-08-18 00:00:00	56.991520	142.300003	164.023849	168.690002	36.042522
2022-08-19 00:00:00	55.768780	138.229996	161.623032	162.919998	35.247761
2022-08-22 00:00:00	53.720943	133.220001	157.100296	158.979996	34.492737
2022-08-23 00:00:00	53.949585	133.619995	156.731705	160.070007	34.184765
2022-08-24 00:00:00	53.999290	133.800003	158.524857	163.600006	34.294044
2022-08-25 00:00:00	54.933739	137.279999	161.613068	169.380005	34.909985
2022-08-26 00:00:00	52.687084	130.750000	156.711777	164.529999	33.807251
2022-08-29 00:00:00	52.488262	129.789993	153.952301	165.419998	33.678104
2022-08-30 00:00:00	52.080685	128.729996	154.071854	162.210007	33.866859
2022-08-31 00:00:00	51.444466	126.769997	151.421967	160.250000	33.389999
2022-09-01 00:00:00	52.030979	127.820000	150.535355	153.660004	33.470001
2022-09-02 00:00:00	52.100567	127.510002	149.220367	151.820007	33.430000
2022-09-06 00:00:00	52.050861	126.110001	148.034912	152.389999	33.060001
2022-09-07 00:00:00	53.382954	129.479996	151.671021	155.949997	33.570000
2022-09-08 00:00:00	54.009232	129.820007	152.936188	157.789993	34.650002
2022-09-09 00:00:00	54.715042	133.270004	157.837479	157.520004	34.939999
2022-09-12 00:00:00	56.196239	136.449997	161.832230	158.720001	35.270000
2022-09-13 00:00:00	54.019173	126.820000	154.759232	147.309998	34.000000
2022-09-14 00:00:00	53.880001	128.550003	155.705612	149.259995	33.869999
2022-09-15 00:00:00	54.180000	126.279999	155.536270	149.779999	34.509998
2022-09-16 00:00:00	53.650002	123.529999	152.497864	144.289993	34.119999
2022-09-19 00:00:00	54.590000	124.660004	154.769196	144.880005	34.689999
2022-09-20 00:00:00	53.410000	122.190002	152.896332	145.940002	34.169998
2022-09-21 00:00:00	52.290001	118.540001	148.144485	143.289993	33.150002
2022-09-22 00:00:00	51.209999	117.309998	142.486084	138.710007	32.500000
2022-09-23 00:00:00	49.770000	113.779999	139.726608	131.259995	31.730000
2022-09-26 00:00:00	48.410000	115.150002	136.927292	127.339996	31.030001
2022-09-27 00:00:00	48.560001	114.410004	136.967148	127.510002	30.570000
2022-09-28 00:00:00	48.770000	118.010002	140.025467	133.440002	31.070000
2022-09-29 00:00:00	47.660000	114.800003	137.266006	125.330002	30.660000
2022-09-30 00:00:00	47.480000	113.000000	134.396957	121.080002	30.200001
2022-10-03 00:00:00	49.180000	115.879997	139.487534	126.050003	31.090000

2022-10-04 00:00:00	51.709999	121.089996	144.906845	133.509995	32.380001
2022-10-05 00:00:00	51.299999	120.949997	143.820984	132.110001	31.920000
2022-10-06 00:00:00	50.759998	120.300003	141.838562	132.199997	31.459999
2022-10-07 00:00:00	49.709999	114.559998	138.471405	129.789993	30.750000
2022-10-11 00:00:00	48.049999	112.209999	136.827682	131.570007	29.770000
2022-10-12 00:00:00	48.959999	112.900002	136.220001	130.419998	29.860001
2022-10-13 00:00:00	50.939999	112.529999	141.550003	132.399994	31.690001
2022-10-14 00:00:00	50.709999	106.900002	136.809998	133.149994	31.700001
2022-10-17 00:00:00	51.730000	113.790001	141.539993	136.089996	33.619999
2022-10-18 00:00:00	52.599998	116.360001	145.990005	137.339996	34.880001
2022-10-19 00:00:00	52.750000	115.070000	143.970001	138.389999	33.919998
2022-10-20 00:00:00	51.849998	115.250000	142.419998	139.130005	33.700001
2022-10-21 00:00:00	53.250000	119.320000	140.039993	141.320007	34.950001
2022-10-24 00:00:00	54.349998	119.820000	141.630005	142.050003	35.070000
2022-10-25 00:00:00	54.290001	120.599998	147.020004	146.649994	35.389999
2022-10-26 00:00:00	54.220001	115.660004	146.880005	133.789993	35.700001
2022-10-27 00:00:00	54.619999	110.959999	146.970001	139.759995	35.869999
2022-10-28 00:00:00	56.799999	103.410004	150.440002	143.839996	36.180000
2022-10-31 00:00:00	57.000000	102.440002	148.449997	142.509995	36.040001
2022-11-01 00:00:00	57.070000	96.790001	147.080002	143.380005	36.200001
2022-11-02 00:00:00	57.279999	92.120003	143.500000	147.410004	36.090000
2022-11-03 00:00:00	57.610001	89.300003	139.309998	156.750000	35.889999
2022-11-04 00:00:00	57.919998	90.980003	144.720001	160.009995	36.790001
2022-11-07 00:00:00	59.169998	90.529999	146.979996	164.910004	37.009998
2022-11-08 00:00:00	59.130001	89.980003	150.199997	169.619995	37.110001
2022-11-09 00:00:00	58.459999	86.139999	145.860001	168.740005	36.520000
2022-11-10 00:00:00	60.590000	96.629997	154.750000	177.580002	38.130001
2022-11-11 00:00:00	60.389999	100.790001	154.889999	177.490005	38.410000
2022-11-14 00:00:00	60.240002	98.489998	154.130005	173.550003	37.759998
2022-11-15 00:00:00	60.540001	98.940002	153.889999	175.350006	37.700001
2022-11-16 00:00:00	59.869999	97.120003	152.570007	172.690002	37.360001
2022-11-17 00:00:00	59.439999	94.849998	150.639999	172.779999	37.169998
2022-11-18 00:00:00	59.820000	94.139999	152.500000	173.889999	37.189999
2022-11-21 00:00:00	60.110001	92.459999	152.809998	172.940002	37.310001
2022-11-22 00:00:00	60.880001	93.199997	154.580002	172.500000	37.490002
2022-11-23 00:00:00	60.959999	94.129997	153.929993	174.850006	37.610001

	BIIB	BK	BLK	BMV	C \
Date					
2021-03-16 00:00:00	259.920013	43.974262	698.315796	58.655910	68.990311
2021-03-17 00:00:00	264.149994	44.231030	703.289490	58.921234	69.244331
2021-03-18 00:00:00	262.269989	44.411716	698.953186	59.063377	69.470131
2021-03-19 00:00:00	267.070007	44.078869	704.660889	59.413982	68.689262
2021-03-22 00:00:00	272.339996	42.994728	705.897095	60.058350	67.701393
2021-03-23 00:00:00	267.209991	42.195889	692.038391	59.338173	66.713539
2021-03-24 00:00:00	265.690002	43.032768	698.006775	59.034946	65.932640
2021-03-25 00:00:00	273.970001	44.059856	702.594177	59.499264	67.475601
2021-03-26 00:00:00	276.630005	45.163013	730.987732	60.588989	68.698654

2021-03-29 00:00:00	276.079987	45.191540	731.914795	60.712185	67.343880
2021-03-30 00:00:00	276.010010	45.514877	723.609253	59.992008	68.642204
2021-03-31 00:00:00	279.750000	44.972805	728.148254	60.288052	68.444633
2021-04-01 00:00:00	278.709991	45.143990	740.577698	60.097065	68.811554
2021-04-05 00:00:00	277.880005	45.771648	757.179138	60.316708	68.444633
2021-04-06 00:00:00	271.760010	45.438801	754.948303	59.189827	68.303513
2021-04-07 00:00:00	268.019989	45.495861	761.022888	59.266228	68.388184
2021-04-08 00:00:00	265.730011	45.648022	773.191467	59.122982	68.049500
2021-04-09 00:00:00	268.170013	46.237644	780.676270	59.791466	68.134163
2021-04-12 00:00:00	262.799988	46.684608	780.318848	59.867863	68.388184
2021-04-13 00:00:00	266.190002	45.971352	775.016846	60.717804	67.795464
2021-04-14 00:00:00	265.790009	46.256660	773.645508	60.937447	68.595161
2021-04-15 00:00:00	270.440002	45.657524	789.841370	61.539085	68.247070
2021-04-16 00:00:00	270.309998	43.812588	783.670105	62.513165	68.162376
2021-04-19 00:00:00	269.049988	44.516331	783.322449	62.646862	67.861336
2021-04-20 00:00:00	273.200012	44.297604	777.402344	63.105259	65.659821
2021-04-21 00:00:00	269.850006	44.877708	783.747437	63.334457	66.468918
2021-04-22 00:00:00	259.000000	44.269066	768.092346	63.334457	65.678635
2021-04-23 00:00:00	262.630005	45.267620	785.331238	63.038414	67.155716
2021-04-26 00:00:00	269.459991	45.752628	790.304932	62.923805	67.927185
2021-04-27 00:00:00	267.390015	46.470501	792.419861	62.990662	68.670433
2021-04-28 00:00:00	267.600006	47.073524	788.334839	63.057514	68.595161
2021-04-29 00:00:00	265.329987	47.934975	798.996826	60.058865	69.470131
2021-04-30 00:00:00	267.329987	47.743542	791.251343	59.610023	67.490135
2021-05-03 00:00:00	275.309998	48.078548	797.355042	60.622303	67.935410
2021-05-04 00:00:00	271.019989	48.327415	807.794922	61.071148	68.522766
2021-05-05 00:00:00	271.570007	49.246292	821.875793	61.768284	69.830132
2021-05-06 00:00:00	272.109985	49.667442	837.414978	61.558182	70.843811
2021-05-07 00:00:00	274.040009	49.600445	843.914673	61.539085	71.128021
2021-05-10 00:00:00	275.609985	50.031170	828.095276	61.787380	71.175377
2021-05-11 00:00:00	278.390015	49.370724	815.202332	61.367191	70.929085
2021-05-12 00:00:00	274.019989	48.844280	795.307556	61.625031	70.322754
2021-05-13 00:00:00	281.709991	49.476009	810.267273	62.112080	71.326958
2021-05-14 00:00:00	280.209991	49.562157	827.535156	61.959274	72.530113
2021-05-17 00:00:00	280.399994	49.858875	820.378906	62.513165	73.344841
2021-05-18 00:00:00	281.010010	48.576275	811.377991	62.646862	72.586960
2021-05-19 00:00:00	281.750000	48.681568	809.813354	62.599113	72.435371
2021-05-20 00:00:00	286.570007	48.442272	815.955688	63.983841	72.189064
2021-05-21 00:00:00	283.190002	49.351578	831.301697	64.031593	73.562752
2021-05-25 00:00:00	273.450012	48.930428	844.339478	63.754646	73.212219
2021-05-26 00:00:00	267.839996	49.351578	846.715271	63.153004	73.439568
2021-05-27 00:00:00	267.369995	49.868450	846.425476	62.751915	74.614311
2021-05-28 00:00:00	267.480011	49.849308	847.014648	62.761459	74.566940
2021-06-01 00:00:00	267.149994	50.059883	846.889099	62.169365	75.561684
2021-06-02 00:00:00	269.350006	49.887596	857.039307	61.777832	75.656403
2021-06-03 00:00:00	272.549988	49.964172	854.827026	61.882885	75.438522
2021-06-04 00:00:00	286.140015	49.973740	860.493469	62.016579	75.305893
2021-06-07 00:00:00	395.850006	49.600445	858.659668	61.854225	75.135353

2021-06-08 00:00:00	395.369995	49.217575	858.232666	60.832401	74.917473
2021-06-09 00:00:00	406.940002	48.451843	845.056335	62.455864	74.026947
2021-06-10 00:00:00	414.709991	47.733971	841.660339	64.356285	72.842743
2021-06-11 00:00:00	396.640015	48.250835	854.487427	64.308540	72.454330
2021-06-14 00:00:00	406.140015	47.513817	850.722778	64.260796	71.203812
2021-06-15 00:00:00	396.079987	48.289127	854.827026	64.384933	69.934341
2021-06-16 00:00:00	391.309998	49.035713	843.513550	63.907436	67.698563
2021-06-17 00:00:00	383.519989	47.360672	842.999390	63.764191	65.235420
2021-06-18 00:00:00	388.440002	46.154640	815.792664	63.477703	64.051208
2021-06-21 00:00:00	380.910004	47.532967	835.664062	63.821491	64.847000
2021-06-22 00:00:00	374.399994	47.322384	839.060059	62.971561	65.330147
2021-06-23 00:00:00	371.899994	47.255379	839.700317	62.322174	65.983841
2021-06-24 00:00:00	349.160004	48.097691	841.563354	62.885601	67.565933
2021-06-25 00:00:00	347.929993	48.806000	848.054565	63.735550	67.783829
2021-06-28 00:00:00	340.269989	48.681568	852.624451	63.410858	67.745926
2021-06-29 00:00:00	345.720001	48.834709	847.569397	63.286694	66.012253
2021-06-30 00:00:00	346.269989	49.035713	848.966553	63.811954	67.025940
2021-07-02 00:00:00	348.720001	49.045292	867.072021	64.408409	66.703827
2021-07-06 00:00:00	344.890015	47.370243	866.150208	64.119804	64.619629
2021-07-07 00:00:00	355.329987	47.360672	874.164734	64.591194	64.354362
2021-07-08 00:00:00	369.049988	46.269493	850.451111	64.158287	63.217537
2021-07-09 00:00:00	358.160004	47.791405	874.523743	64.610435	64.847000
2021-07-12 00:00:00	349.040009	48.126404	888.699524	64.937531	65.784889
2021-07-13 00:00:00	351.920013	47.820110	881.082886	64.879814	64.771210
2021-07-14 00:00:00	352.059998	47.169235	854.157593	65.303108	64.581741
2021-07-15 00:00:00	328.160004	46.594936	853.847046	64.870186	64.847000
2021-07-16 00:00:00	324.619995	47.264957	849.015137	64.745125	63.378590
2021-07-19 00:00:00	324.160004	45.542053	820.042419	63.840805	61.654388
2021-07-20 00:00:00	322.489990	47.322384	852.721619	64.187141	62.800694
2021-07-21 00:00:00	322.959991	47.915833	856.447388	64.610435	64.316483
2021-07-22 00:00:00	326.359985	47.695683	841.097595	65.380058	63.407009
2021-07-23 00:00:00	325.399994	47.829685	843.125427	65.745636	63.198589
2021-07-26 00:00:00	331.929993	48.427193	845.589966	65.120323	64.202782
2021-07-27 00:00:00	333.959991	48.369373	836.265686	64.927910	64.401749
2021-07-28 00:00:00	334.179993	48.523563	835.130432	66.120834	64.515419
2021-07-29 00:00:00	329.170013	49.439102	843.552490	65.562859	65.188042
2021-07-30 00:00:00	326.730011	49.468021	841.398376	65.293488	64.539040
2021-08-03 00:00:00	338.000000	50.113716	854.050842	66.678818	65.741623
2021-08-04 00:00:00	338.100006	49.622215	855.797302	65.889946	65.398026
2021-08-05 00:00:00	336.589996	49.920971	862.851318	65.822601	66.514725
2021-08-06 00:00:00	340.000000	51.231636	869.458923	65.533989	67.831841
2021-08-09 00:00:00	340.200012	51.443657	875.164062	64.822075	68.261330
2021-08-10 00:00:00	337.220001	51.877331	885.439331	64.822075	69.654823
2021-08-11 00:00:00	339.049988	52.783234	889.834778	64.331444	70.914688
2021-08-12 00:00:00	340.679993	52.898876	891.241699	64.408409	70.752419
2021-08-13 00:00:00	342.250000	51.915882	889.611633	64.947151	69.778893
2021-08-16 00:00:00	343.500000	52.301373	897.403015	66.072739	68.814919
2021-08-17 00:00:00	349.790009	51.848419	882.586792	66.342102	68.356781

2021-08-18 00:00:00	341.869995	51.588211	875.105896	65.351204	67.879562
2021-08-19 00:00:00	338.619995	50.855782	876.920349	65.909180	66.657883
2021-08-20 00:00:00	341.739990	51.385830	889.912415	66.572990	67.049202
2021-08-23 00:00:00	346.429993	52.098991	900.284729	66.322861	67.660042
2021-08-24 00:00:00	349.399994	52.551937	901.575195	65.918808	68.757645
2021-08-25 00:00:00	342.750000	53.554207	911.598145	65.033722	69.845703
2021-08-26 00:00:00	342.239990	53.467480	908.066406	64.446884	69.139412
2021-08-27 00:00:00	343.190002	54.363743	926.559998	64.071693	69.664352
2021-08-30 00:00:00	344.420013	53.178360	919.903870	64.658539	68.404503
2021-08-31 00:00:00	338.910004	53.216911	915.256104	64.321823	68.633583
2021-09-01 00:00:00	338.239990	52.426659	915.770386	63.311684	68.060898
2021-09-02 00:00:00	335.570007	52.339920	922.416809	63.609913	68.242256
2021-09-03 00:00:00	333.600006	51.973705	913.392822	63.119278	67.927292
2021-09-07 00:00:00	327.239990	51.193085	901.260132	62.715225	67.593231
2021-09-08 00:00:00	321.549988	51.058170	900.782593	62.455475	66.848778
2021-09-09 00:00:00	300.149994	50.961800	898.638672	61.166344	67.249626
2021-09-10 00:00:00	299.809998	50.026978	893.259338	60.733425	66.400192
2021-09-13 00:00:00	301.940002	50.345005	892.908508	60.454437	67.306892
2021-09-14 00:00:00	295.950012	49.284912	878.963257	59.752148	65.646179
2021-09-15 00:00:00	299.209991	50.181175	886.466980	59.646320	67.240089
2021-09-16 00:00:00	299.690002	49.506569	867.746460	58.905560	66.810593
2021-09-17 00:00:00	300.190002	49.294544	854.288452	58.982517	66.772423
2021-09-20 00:00:00	298.489990	47.791138	835.421875	58.203266	64.233620
2021-09-21 00:00:00	295.540009	47.511658	823.698486	58.039722	63.890015
2021-09-22 00:00:00	289.320007	48.118809	829.360352	57.866554	65.130775
2021-09-23 00:00:00	293.200012	49.631851	853.840149	58.328335	67.650497
2021-09-24 00:00:00	291.709991	49.680035	852.329712	57.943516	67.936829
2021-09-27 00:00:00	286.619995	51.462933	853.158020	57.568321	68.967628
2021-09-28 00:00:00	284.709991	50.990704	838.637817	57.568321	68.118172
2021-09-29 00:00:00	285.559998	50.720860	834.739746	58.318710	68.270882
2021-09-30 00:00:00	282.989990	49.959518	817.286133	57.387627	66.982391
2021-10-01 00:00:00	283.940002	51.000340	820.433899	57.717388	67.936829
2021-10-04 00:00:00	278.320007	50.932880	804.520020	57.154861	68.041817
2021-10-05 00:00:00	280.440002	52.445927	817.403137	57.368237	69.225319
2021-10-06 00:00:00	283.549988	52.561581	816.204468	57.407028	69.120331
2021-10-07 00:00:00	287.769989	52.551937	820.882080	57.232449	68.900810
2021-10-08 00:00:00	285.829987	53.814419	822.879883	55.535164	69.053528
2021-10-12 00:00:00	284.790009	53.496387	814.879150	55.341190	67.421432
2021-10-13 00:00:00	283.649994	53.284367	845.693298	55.350887	67.058746
2021-10-14 00:00:00	285.260010	54.517937	869.763794	55.961914	67.574150
2021-10-15 00:00:00	281.190002	55.086536	884.137817	56.602032	68.996254
2021-10-18 00:00:00	269.730011	55.327469	873.466919	55.224804	68.347244
2021-10-19 00:00:00	268.130005	55.558762	878.670837	55.855225	68.490402
2021-10-20 00:00:00	266.570007	57.158546	879.918213	56.320770	68.547668
2021-10-21 00:00:00	270.209991	57.572952	880.688049	56.068600	67.297363
2021-10-22 00:00:00	264.799988	57.544033	891.651306	55.864922	68.118172
2021-10-25 00:00:00	269.940002	57.245281	901.172424	56.068600	67.602776
2021-10-26 00:00:00	271.119995	56.956161	907.838135	56.485649	67.430977

2021-10-27 00:00:00	259.950012	56.329742	893.892761	54.788361	67.106468
2021-10-28 00:00:00	264.869995	57.283829	911.638672	55.409081	67.650497
2021-10-29 00:00:00	266.679993	57.380756	919.415283	56.640831	66.487267
2021-11-01 00:00:00	272.100006	58.175560	912.369568	56.912392	66.919868
2021-11-02 00:00:00	272.510010	58.088322	923.693359	56.863895	65.948898
2021-11-03 00:00:00	279.589996	58.243408	927.445312	57.571907	66.333443
2021-11-04 00:00:00	280.410004	57.245064	929.725586	57.465221	64.410728
2021-11-05 00:00:00	278.679993	57.012436	930.768311	57.659199	64.401115
2021-11-08 00:00:00	272.700012	57.167519	941.254150	57.620399	65.804695
2021-11-09 00:00:00	270.029999	56.779812	942.111755	57.668896	65.362465
2021-11-10 00:00:00	266.929993	57.341988	934.763916	57.601002	65.573959
2021-11-11 00:00:00	266.570007	58.146481	940.991028	57.407028	66.208466
2021-11-12 00:00:00	270.429993	58.233715	946.730896	57.639801	66.487267
2021-11-15 00:00:00	271.820007	58.068939	928.946045	57.824078	66.083488
2021-11-16 00:00:00	261.549988	57.332298	924.765381	57.319740	65.122131
2021-11-17 00:00:00	258.380005	56.266098	907.799072	57.649498	64.266533
2021-11-18 00:00:00	256.790009	55.994705	899.252625	57.261551	64.516487
2021-11-19 00:00:00	257.190002	55.316216	891.631897	56.087997	63.776234
2021-11-22 00:00:00	252.210007	56.421181	895.900269	55.321793	64.449196
2021-11-23 00:00:00	254.149994	57.196598	911.589905	55.719440	65.439384
2021-11-24 00:00:00	250.130005	57.109360	906.999939	55.098721	64.679916
2021-11-26 00:00:00	242.899994	55.006046	878.661133	54.827152	62.968697
2021-11-29 00:00:00	236.110001	55.258057	904.349304	52.994083	62.526482
2021-11-30 00:00:00	235.740005	53.106277	881.555420	52.014515	61.238262
2021-12-01 00:00:00	229.500000	52.476257	877.384460	53.294750	60.103867
2021-12-02 00:00:00	228.520004	54.424488	895.432434	53.740898	61.344013
2021-12-03 00:00:00	223.919998	53.193516	876.643860	54.623478	60.334587
2021-12-06 00:00:00	224.110001	53.726612	877.877441	55.118122	60.103867
2021-12-07 00:00:00	226.830002	54.405102	901.588989	55.409081	60.469181
2021-12-08 00:00:00	234.720001	54.589260	904.467285	55.864922	60.046181
2021-12-09 00:00:00	232.429993	55.325909	899.787659	55.806736	59.738552
2021-12-10 00:00:00	232.619995	54.986660	905.739929	54.662277	58.363815
2021-12-13 00:00:00	234.500000	54.405102	898.397400	57.271248	57.854298
2021-12-14 00:00:00	230.759995	55.035122	883.438171	57.717388	58.296520
2021-12-15 00:00:00	235.880005	55.151436	895.705139	58.784252	57.911983
2021-12-16 00:00:00	235.520004	56.624729	902.205811	60.297260	58.709900
2021-12-17 00:00:00	237.429993	55.733002	894.393250	59.705639	57.239029
2021-12-20 00:00:00	236.960007	54.744347	878.455017	59.860821	56.027721
2021-12-21 00:00:00	234.649994	56.111019	891.750000	59.598949	57.085217
2021-12-22 00:00:00	234.479996	56.130398	892.405884	60.229370	57.296707
2021-12-23 00:00:00	235.410004	56.324253	894.735962	60.180874	57.883137
2021-12-29 00:00:00	258.309998	56.576263	890.624146	60.413651	58.200386
2021-12-30 00:00:00	240.000000	56.188560	894.579285	60.636719	58.094635
2021-12-31 00:00:00	239.919998	56.295181	896.341553	60.471840	58.056183
2022-01-04 00:00:00	241.729996	58.737732	897.966675	60.258469	61.132515
2022-01-05 00:00:00	239.270004	58.330639	873.050964	60.287560	60.421112
2022-01-06 00:00:00	237.300003	59.416225	876.692810	60.150593	62.401505
2022-01-07 00:00:00	232.600006	60.414577	873.540466	61.471397	63.237885

2022-01-10	00:00:00	235.309998	60.870129	855.007812	63.692310	63.478222
2022-01-11	00:00:00	241.520004	61.131832	869.546082	64.064102	64.516487
2022-01-12	00:00:00	225.339996	61.597080	866.530701	63.418369	64.679916
2022-01-13	00:00:00	236.669998	61.694008	849.368713	63.203125	65.160591
2022-01-14	00:00:00	239.300003	61.645542	830.787048	63.525990	64.343437
2022-01-18	00:00:00	233.809998	60.986439	814.535522	63.486851	62.776436
2022-01-19	00:00:00	230.809998	57.419529	808.171997	63.320534	61.757393
2022-01-20	00:00:00	225.910004	58.078629	809.199890	63.183556	61.968895
2022-01-21	00:00:00	220.520004	55.422832	784.107971	62.166046	60.824883
2022-01-24	00:00:00	224.690002	57.089977	770.303955	61.256157	60.276909
2022-01-25	00:00:00	222.309998	57.206291	781.787659	61.109402	61.632420
2022-01-26	00:00:00	219.600006	57.109360	778.772278	60.894161	62.247684
2022-01-27	00:00:00	218.940002	56.576263	771.419983	62.479126	61.670876
2022-01-28	00:00:00	225.210007	57.014992	791.176392	63.506432	62.190006
2022-01-31	00:00:00	226.000000	57.775452	805.665710	63.486851	62.603394
2022-02-01	00:00:00	229.369995	59.169628	808.612549	63.780369	63.987736
2022-02-02	00:00:00	224.960007	59.520611	805.244812	63.398808	63.670490
2022-02-03	00:00:00	220.169998	59.247627	788.856201	62.684582	62.737980
2022-02-04	00:00:00	221.529999	60.261574	792.821106	63.584690	64.026657
2022-02-07	00:00:00	221.300003	60.690552	799.772095	64.758751	64.297951
2022-02-08	00:00:00	222.389999	62.026226	790.442139	64.465233	65.034332
2022-02-09	00:00:00	226.809998	62.065228	795.934326	65.688194	65.731956
2022-02-10	00:00:00	220.039993	61.879986	761.855042	65.071831	65.402527
2022-02-11	00:00:00	214.589996	60.768547	756.274719	65.433823	65.063400
2022-02-14	00:00:00	214.119995	59.930092	744.350342	65.365326	64.394836
2022-02-15	00:00:00	217.369995	60.671047	764.792053	66.304573	64.918053
2022-02-16	00:00:00	214.550003	60.934284	766.975220	66.138260	64.869614
2022-02-17	00:00:00	210.600006	55.913300	746.494446	65.932800	62.699219
2022-02-18	00:00:00	209.789993	54.967606	740.150452	66.089333	62.146931
2022-02-22	00:00:00	209.809998	54.246136	729.831665	65.991493	61.904697
2022-02-23	00:00:00	209.080002	52.013504	717.114319	66.461121	61.255524
2022-02-24	00:00:00	203.119995	51.184803	716.429016	65.649063	58.784752
2022-02-25	00:00:00	207.380005	53.007954	735.108521	67.312309	60.054050
2022-02-28	00:00:00	211.009995	51.818516	728.275085	67.185120	57.389503
2022-03-01	00:00:00	210.339996	49.312897	699.805420	67.145973	56.769390
2022-03-02	00:00:00	207.789993	50.833817	722.547852	67.361229	57.709251
2022-03-03	00:00:00	211.229996	51.048309	722.224792	67.615608	55.829529
2022-03-04	00:00:00	209.449997	49.644379	686.509277	67.860199	54.831535
2022-03-07	00:00:00	205.779999	48.757175	667.271667	67.282959	53.823853
2022-03-08	00:00:00	202.009995	49.459137	653.277161	66.275223	53.164986
2022-03-09	00:00:00	202.270004	50.872814	683.217590	66.656799	54.211426
2022-03-10	00:00:00	198.639999	48.747425	687.110413	66.940521	53.174675
2022-03-11	00:00:00	197.669998	48.747425	677.097412	67.380798	52.477047
2022-03-14	00:00:00	193.770004	49.264149	687.435608	67.742790	52.544872
2022-03-15	00:00:00	197.360001	49.283649	697.428833	68.241768	53.397526
2022-03-16	00:00:00	203.800003	50.609581	720.529602	68.153717	55.035011
2022-03-17	00:00:00	205.320007	51.194550	730.207581	68.995110	55.509785
2022-03-18	00:00:00	208.570007	50.989811	727.901428	69.484299	55.567921

2022-03-21 00:00:00	206.809998	50.872814	723.210266	69.513657	55.209415
2022-03-22 00:00:00	210.919998	51.370041	736.061584	69.288620	55.713261
2022-03-23 00:00:00	209.619995	50.434090	725.802246	69.836517	54.598991
2022-03-24 00:00:00	213.009995	50.736324	727.595886	70.844246	54.666821
2022-03-25 00:00:00	210.970001	51.418789	730.315918	71.695427	54.976879
2022-03-28 00:00:00	211.679993	51.194550	739.028015	71.529114	54.182354
2022-03-29 00:00:00	214.949997	51.418789	762.049927	71.646523	54.715267
2022-03-30 00:00:00	211.029999	50.541332	766.110352	72.125916	53.261879
2022-03-31 00:00:00	210.600006	48.386700	753.111206	71.978081	51.740665
2022-04-01 00:00:00	210.649994	48.211208	758.620361	72.756699	50.703915
2022-04-04 00:00:00	211.639999	48.269703	770.909790	72.727135	51.159306
2022-04-05 00:00:00	207.610001	47.733482	753.367493	73.357918	49.977219
2022-04-06 00:00:00	209.710007	46.992523	734.445312	74.254799	48.959846
2022-04-07 00:00:00	211.639999	46.563541	738.052307	76.147156	48.475380
2022-04-08 00:00:00	214.750000	47.129013	725.447388	76.649796	49.298969
2022-04-11 00:00:00	210.619995	46.865780	717.839172	75.398094	48.979221
2022-04-12 00:00:00	208.059998	46.456299	706.456299	75.447380	48.775745
2022-04-13 00:00:00	213.979996	47.129013	705.382019	75.762772	48.591656
2022-04-14 00:00:00	212.550003	46.105320	678.210999	76.393555	49.347416
2022-04-18 00:00:00	212.539993	45.052372	670.159302	75.644501	50.684532
2022-04-19 00:00:00	223.020004	45.354607	691.417175	75.299538	51.275578
2022-04-20 00:00:00	220.429993	45.842083	688.884338	76.166862	51.449982
2022-04-21 00:00:00	218.399994	44.993877	671.598206	76.442825	50.994591
2022-04-22 00:00:00	209.990005	43.102478	653.346191	74.658897	49.638092
2022-04-25 00:00:00	214.539993	43.258469	658.608948	74.954582	49.541203
2022-04-26 00:00:00	206.990005	42.176273	637.686157	74.501205	48.669163
2022-04-27 00:00:00	206.940002	41.616150	633.714478	74.718033	48.058739
2022-04-28 00:00:00	210.410004	42.706917	641.549377	76.088013	48.465694
2022-04-29 00:00:00	207.440002	41.331177	615.639893	74.185814	47.193111
2022-05-02 00:00:00	207.320007	41.960087	615.758118	73.998550	47.682564
2022-05-03 00:00:00	205.699997	42.362984	621.927551	73.968987	49.043247
2022-05-04 00:00:00	210.100006	44.023697	655.603027	75.210838	51.128319
2022-05-05 00:00:00	201.179993	43.335827	624.637756	75.151695	50.227726
2022-05-06 00:00:00	193.610001	43.001720	619.522827	75.565643	50.531185
2022-05-09 00:00:00	187.539993	42.461250	596.796570	75.171402	48.837673
2022-05-10 00:00:00	195.000000	42.215580	601.398987	75.191116	47.721722
2022-05-11 00:00:00	191.070007	41.694767	591.661987	75.053139	46.654716
2022-05-12 00:00:00	194.320007	42.068184	591.711304	75.200981	45.577915
2022-05-13 00:00:00	199.110001	42.706917	606.425171	74.708183	46.635136
2022-05-16 00:00:00	198.380005	42.490730	589.937256	75.802193	46.458927
2022-05-17 00:00:00	202.899994	43.817341	602.867371	77.093330	49.973206
2022-05-18 00:00:00	195.710007	42.539867	583.294800	75.910599	48.279697
2022-05-19 00:00:00	193.089996	42.569344	584.497192	74.865875	48.729996
2022-05-20 00:00:00	199.649994	43.011547	591.750671	75.092560	48.700630
2022-05-24 00:00:00	202.539993	43.571671	609.401428	76.019020	51.568829
2022-05-25 00:00:00	202.360001	43.945087	617.532043	76.127434	51.588406
2022-05-26 00:00:00	204.220001	44.868797	642.998169	76.472397	52.949089
2022-05-27 00:00:00	206.199997	45.674587	656.884277	75.043282	52.488998

2022-05-31	00:00:00	200.000000	45.802338	659.397339	74.363220	52.283428
2022-06-01	00:00:00	200.000000	44.858971	650.951355	73.880280	51.284943
2022-06-02	00:00:00	198.509995	45.664761	676.555359	73.988693	51.324100
2022-06-03	00:00:00	200.619995	44.800011	666.758545	74.087250	50.247303
2022-06-06	00:00:00	197.110001	45.153774	670.331909	74.166107	50.315826
2022-06-07	00:00:00	201.080002	45.537010	674.570190	75.486794	51.001057
2022-06-08	00:00:00	206.729996	44.554340	657.497742	75.082703	50.325615
2022-06-09	00:00:00	202.220001	43.276871	654.956726	74.885590	48.915993
2022-06-10	00:00:00	197.500000	42.048527	613.089539	74.008400	46.703659
2022-06-13	00:00:00	192.160004	40.751404	594.280029	72.520157	44.726265
2022-06-14	00:00:00	194.179993	39.896477	586.845581	71.820381	44.990570
2022-06-15	00:00:00	197.259995	41.144466	595.451355	71.968224	46.576401
2022-06-16	00:00:00	191.529999	40.495903	581.426147	71.573990	45.900955
2022-06-17	00:00:00	201.740005	40.417294	577.942139	72.707420	45.538761
2022-06-21	00:00:00	206.889999	41.586670	609.982727	75.368530	46.948387
2022-06-22	00:00:00	207.000000	41.498230	604.761780	75.447380	46.204418
2022-06-23	00:00:00	211.380005	41.272217	620.077332	76.570961	45.372345
2022-06-24	00:00:00	211.929993	42.844490	642.976257	77.822662	46.850498
2022-06-27	00:00:00	213.570007	42.313850	632.196777	78.827972	46.821129
2022-06-28	00:00:00	202.509995	42.117313	624.454651	77.566406	46.214203
2022-06-29	00:00:00	205.229996	41.675110	613.377380	77.152458	46.106525
2022-06-30	00:00:00	203.940002	40.987244	604.523499	76.418053	45.019939
2022-07-05	00:00:00	212.580002	41.350834	616.116882	75.385910	45.626862
2022-07-06	00:00:00	215.979996	40.859497	610.181274	75.643951	45.176567
2022-07-07	00:00:00	217.960007	41.557194	619.074829	74.572113	45.940109
2022-07-08	00:00:00	218.800003	41.164124	614.965515	74.810295	45.832432
2022-07-11	00:00:00	215.259995	40.987244	600.513489	74.988937	45.215717
2022-07-12	00:00:00	215.580002	41.046204	598.816162	74.443092	45.156986
2022-07-13	00:00:00	214.529999	40.554867	591.957397	73.966721	44.540276
2022-07-14	00:00:00	214.270004	39.739250	584.264893	73.450653	43.208961
2022-07-15	00:00:00	217.009995	42.657784	595.917847	75.078255	48.925777
2022-07-18	00:00:00	214.339996	42.028873	593.098938	73.182686	49.013882
2022-07-19	00:00:00	220.259995	42.824844	623.680420	72.587227	51.030430
2022-07-20	00:00:00	207.490005	42.382637	630.023010	72.269646	51.343681
2022-07-21	00:00:00	214.059998	42.726574	634.569031	72.487984	51.480724
2022-07-22	00:00:00	206.250000	42.340042	628.941101	72.398659	50.815067
2022-07-25	00:00:00	207.570007	42.637371	631.432495	72.289490	51.059795
2022-07-26	00:00:00	210.850006	41.735466	618.320435	73.073517	50.315826
2022-07-27	00:00:00	212.919998	42.498619	638.549316	74.244606	51.245789
2022-07-28	00:00:00	214.199997	42.647282	655.085754	74.135429	51.128319
2022-07-29	00:00:00	215.059998	43.073456	664.217529	73.222389	51.306259
2022-08-02	00:00:00	209.149994	42.567993	661.219910	72.726166	50.169415
2022-08-03	00:00:00	213.600006	43.321232	685.419128	72.438354	51.019577
2022-08-04	00:00:00	217.300003	42.677017	690.848572	71.574936	50.673580
2022-08-05	00:00:00	218.199997	43.113102	690.769165	71.574936	51.069004
2022-08-08	00:00:00	217.559998	42.696838	691.106689	73.242241	50.881180
2022-08-09	00:00:00	217.589996	42.805859	691.344910	74.393471	51.494087
2022-08-10	00:00:00	221.039993	43.598747	719.832092	74.294228	52.581501

2022-08-11	00:00:00	218.220001	43.975365	723.246582	73.897247	53.382236
2022-08-12	00:00:00	220.990005	44.500652	746.254639	74.998863	53.757889
2022-08-15	00:00:00	222.380005	44.312340	750.215088	73.966721	53.451435
2022-08-16	00:00:00	219.639999	44.629494	751.455811	73.569740	53.560177
2022-08-17	00:00:00	217.580002	44.411453	737.708435	73.996490	53.144978
2022-08-18	00:00:00	216.339996	44.262783	739.693665	73.589592	52.937382
2022-08-19	00:00:00	214.089996	43.499634	708.556274	74.760674	52.008137
2022-08-22	00:00:00	207.699997	42.855415	689.895691	73.986572	50.663696
2022-08-23	00:00:00	202.809998	42.587818	691.801453	72.220016	50.367126
2022-08-24	00:00:00	201.779999	42.597725	695.225891	71.872665	50.426437
2022-08-25	00:00:00	204.830002	43.113102	705.330383	70.959618	51.464428
2022-08-26	00:00:00	198.589996	41.626442	671.423706	70.651970	49.210510
2022-08-29	00:00:00	197.110001	41.388577	670.877808	66.245522	48.805202
2022-08-30	00:00:00	196.080002	41.309288	667.731262	66.692116	48.518520
2022-08-31	00:00:00	195.380005	41.160622	661.448242	66.900536	48.251610
2022-09-01	00:00:00	199.789993	40.992138	659.919617	68.567833	48.192295
2022-09-02	00:00:00	196.029999	40.754269	653.179993	68.091461	48.281265
2022-09-06	00:00:00	194.690002	40.774094	661.630005	68.131165	47.668358
2022-09-07	00:00:00	200.669998	42.052620	674.219971	68.240334	48.073669
2022-09-08	00:00:00	207.979996	43.430256	691.919983	68.855644	49.329140
2022-09-09	00:00:00	211.839996	43.747410	695.460022	69.629753	50.090328
2022-09-12	00:00:00	212.880005	43.886162	696.809998	71.813126	50.288040
2022-09-13	00:00:00	203.910004	43.717678	644.909973	70.503098	48.439434
2022-09-14	00:00:00	204.110001	43.331146	643.580017	69.937408	47.875957
2022-09-15	00:00:00	206.720001	44.044739	632.340027	71.237503	47.885841
2022-09-16	00:00:00	208.259995	43.499634	626.739990	70.979469	47.559616
2022-09-19	00:00:00	209.259995	43.816788	634.729980	69.659523	47.688129
2022-09-20	00:00:00	204.199997	42.885147	622.309998	69.203003	46.709454
2022-09-21	00:00:00	199.339996	41.923775	608.090027	68.935036	45.799980
2022-09-22	00:00:00	200.619995	40.565960	600.500000	70.751205	45.058563
2022-09-23	00:00:00	197.779999	39.812717	591.390015	70.175591	43.753658
2022-09-26	00:00:00	195.750000	39.118946	584.650024	69.619827	42.498192
2022-09-27	00:00:00	197.789993	38.593658	578.599976	69.828239	42.102768
2022-09-28	00:00:00	276.609985	39.237877	585.429993	71.515388	42.903500
2022-09-29	00:00:00	264.279999	38.534195	563.919983	71.168030	41.905052
2022-09-30	00:00:00	267.000000	38.177395	550.280029	70.552719	41.193291
2022-10-03	00:00:00	264.299988	39.307255	572.719971	69.996948	42.073112
2022-10-04	00:00:00	267.450012	41.002045	591.299988	70.671814	43.901943
2022-10-05	00:00:00	261.690002	40.992138	583.150024	70.909996	43.338467
2022-10-06	00:00:00	262.260010	40.318184	571.609985	70.239998	42.567390
2022-10-07	00:00:00	257.890015	39.128857	550.400024	69.699997	41.707340
2022-10-11	00:00:00	254.070007	38.137749	531.140015	69.650002	39.987247
2022-10-12	00:00:00	253.669998	36.958336	531.099976	69.279999	40.372787
2022-10-13	00:00:00	269.940002	38.861256	566.030029	70.769997	42.458649
2022-10-14	00:00:00	264.630005	38.068375	550.950012	70.620003	42.735443
2022-10-17	00:00:00	269.549988	40.001030	569.250000	71.379997	43.091328
2022-10-18	00:00:00	270.279999	39.604588	581.059998	71.739998	43.644920
2022-10-19	00:00:00	264.450012	38.672947	577.900024	71.139999	42.844185

2022-10-20 00:00:00	262.649994	38.078281	572.359985	70.349998	42.428989
2022-10-21 00:00:00	267.619995	39.872185	597.260010	72.209999	43.753658
2022-10-24 00:00:00	274.619995	40.476761	611.440002	72.989998	43.901943
2022-10-25 00:00:00	273.559998	41.230000	635.940002	72.769997	44.801533
2022-10-26 00:00:00	280.429993	41.259998	637.799988	74.449997	44.890507
2022-10-27 00:00:00	277.869995	41.650002	648.979980	74.599998	44.920162
2022-10-28 00:00:00	284.290009	42.320000	663.750000	76.830002	45.602268
2022-10-31 00:00:00	283.440002	42.110001	645.909973	77.470001	45.335358
2022-11-01 00:00:00	280.040009	42.230000	652.000000	77.699997	45.691238
2022-11-02 00:00:00	278.369995	42.040001	638.809998	77.449997	45.028904
2022-11-03 00:00:00	280.250000	41.529999	633.809998	78.480003	44.070004
2022-11-04 00:00:00	281.820007	42.490002	656.150024	78.779999	45.130001
2022-11-07 00:00:00	284.619995	42.419998	676.299988	79.190002	45.730000
2022-11-08 00:00:00	286.160004	42.700001	686.330017	79.980003	46.119999
2022-11-09 00:00:00	282.309998	42.099998	669.619995	79.779999	45.360001
2022-11-10 00:00:00	290.700012	44.070000	759.809998	79.379997	48.419998
2022-11-11 00:00:00	289.450012	44.520000	774.750000	75.959999	50.189999
2022-11-14 00:00:00	299.059998	43.580002	741.150024	76.389999	49.020000
2022-11-15 00:00:00	299.779999	43.830002	740.309998	76.279999	49.029999
2022-11-16 00:00:00	300.010010	43.810001	727.030029	76.150002	48.369999
2022-11-17 00:00:00	302.049988	43.880001	721.309998	77.160004	48.250000
2022-11-18 00:00:00	302.890015	44.560001	720.609985	77.449997	48.660000
2022-11-21 00:00:00	301.630005	44.650002	723.700012	78.959999	48.880001
2022-11-22 00:00:00	306.720001	45.240002	733.450012	78.860001	49.330002
2022-11-23 00:00:00	303.450012	45.490002	736.320007	79.139999	48.240002

Date	CAT	CL	CMCSA	COF	COP \
2021-03-16 00:00:00	217.884537	72.816872	55.796642	124.143265	52.917683
2021-03-17 00:00:00	224.783005	72.759285	55.277512	127.196358	53.151505
2021-03-18 00:00:00	221.944717	73.018456	53.710514	123.969337	49.924816
2021-03-19 00:00:00	216.758804	71.972176	53.316357	122.152946	49.195305
2021-03-22 00:00:00	217.461182	72.730476	54.191189	120.983879	48.858604
2021-03-23 00:00:00	209.985397	74.631050	53.970081	118.268944	48.362904
2021-03-24 00:00:00	212.852570	74.650253	53.758579	119.718201	49.765816
2021-03-25 00:00:00	215.758194	74.765434	54.123890	123.544228	50.102516
2021-03-26 00:00:00	220.809402	76.042091	53.047184	125.206032	51.477371
2021-03-29 00:00:00	221.502136	76.694809	53.056793	122.210899	50.355045
2021-03-30 00:00:00	224.253815	76.147682	52.854912	124.210876	49.971581
2021-03-31 00:00:00	223.089645	75.667725	52.018543	122.925888	49.541348
2021-04-01 00:00:00	223.926697	75.398972	52.633801	125.389610	50.523388
2021-04-05 00:00:00	224.860001	76.339645	52.681873	128.114243	48.830544
2021-04-06 00:00:00	221.906250	76.656418	52.961937	127.563484	49.176601
2021-04-07 00:00:00	221.684952	76.426041	52.730152	128.471695	48.989544
2021-04-08 00:00:00	221.752274	76.445244	52.469402	128.239807	47.923332
2021-04-09 00:00:00	222.012039	76.579628	51.735428	129.631104	47.913982
2021-04-12 00:00:00	222.185257	76.944382	51.493988	129.698746	47.567928
2021-04-13 00:00:00	220.665085	76.531631	52.034813	128.181839	47.502468

2021-04-14 00:00:00	223.772766	76.214867	51.474678	131.176987	49.279476
2021-04-15 00:00:00	223.715042	77.232338	52.285912	130.307419	48.540619
2021-04-16 00:00:00	224.523239	77.462715	53.222691	132.056183	47.783043
2021-04-19 00:00:00	223.589966	77.145958	52.285912	130.829163	47.595989
2021-04-20 00:00:00	219.010223	78.507019	52.305222	127.051422	45.500980
2021-04-21 00:00:00	223.657318	78.333260	52.788097	128.413727	46.801003
2021-04-22 00:00:00	220.222519	78.236732	52.537010	128.500671	46.258545
2021-04-23 00:00:00	222.397095	77.020470	52.527348	131.090012	46.501720
2021-04-26 00:00:00	222.832001	76.528168	52.459747	133.611740	46.997406
2021-04-27 00:00:00	222.619354	75.833168	52.440434	134.249390	47.979446
2021-04-28 00:00:00	224.513672	76.035858	52.247276	139.476379	49.606827
2021-04-29 00:00:00	219.845566	77.049431	54.468517	144.181625	49.690994
2021-04-30 00:00:00	220.464096	77.898880	54.227081	144.036728	47.829803
2021-05-03 00:00:00	220.522079	78.256035	54.632694	144.848312	49.326241
2021-05-04 00:00:00	225.586472	78.275352	54.690639	146.877258	49.167248
2021-05-05 00:00:00	229.906662	78.497360	54.478168	148.403824	51.851475
2021-05-06 00:00:00	229.123795	79.452995	55.028652	151.147736	52.094643
2021-05-07 00:00:00	232.912415	79.327507	56.119949	152.374771	53.404022
2021-05-10 00:00:00	234.478104	80.447235	55.540501	152.055939	53.310501
2021-05-11 00:00:00	231.279053	79.578476	55.530846	149.524567	52.113342
2021-05-12 00:00:00	229.365417	79.202019	54.680981	147.795120	52.085297
2021-05-13 00:00:00	232.023239	80.370018	55.424614	151.002792	51.123890
2021-05-14 00:00:00	234.110809	80.659607	56.670433	153.153198	53.272907
2021-05-17 00:00:00	236.585022	80.649963	53.560703	154.887085	54.950638
2021-05-18 00:00:00	231.443344	80.225227	53.068169	151.990814	53.998669
2021-05-19 00:00:00	228.930496	80.321754	52.382488	152.223297	52.386913
2021-05-20 00:00:00	227.113510	81.171196	53.155090	152.862595	52.207825
2021-05-21 00:00:00	229.288116	81.306366	53.193718	154.063736	52.452885
2021-05-25 00:00:00	229.220444	81.653847	53.792492	153.259766	51.727116
2021-05-26 00:00:00	229.742340	81.499420	54.903103	154.828949	52.236099
2021-05-27 00:00:00	233.192673	80.785095	55.376320	156.717850	52.339783
2021-05-28 00:00:00	232.999374	80.871971	55.376320	155.739487	52.537724
2021-06-01 00:00:00	234.623077	79.617088	54.999676	161.037994	54.922363
2021-06-02 00:00:00	235.299622	80.003204	54.748581	160.718353	55.601002
2021-06-03 00:00:00	235.666870	81.036072	54.458855	161.076752	56.053425
2021-06-04 00:00:00	235.840836	81.055374	55.047966	161.047699	56.411594
2021-06-07 00:00:00	231.723633	80.987816	54.970699	158.422668	56.373886
2021-06-08 00:00:00	232.110199	80.051476	54.497486	157.628372	56.995975
2021-06-09 00:00:00	226.784912	79.694313	54.333305	155.565155	56.251362
2021-06-10 00:00:00	218.163895	80.698227	54.661663	153.763474	56.713207
2021-06-11 00:00:00	213.302490	80.727173	54.932079	155.613586	56.524696
2021-06-14 00:00:00	211.669128	80.514816	55.318371	153.734406	56.845169
2021-06-15 00:00:00	212.104065	80.379669	55.357006	157.027817	57.655754
2021-06-16 00:00:00	209.881149	79.105492	55.163857	157.114975	57.618050
2021-06-17 00:00:00	202.429550	79.568832	55.550156	148.736176	55.619854
2021-06-18 00:00:00	201.859344	78.207779	54.767899	145.316849	54.224876
2021-06-21 00:00:00	206.063538	78.613197	55.318371	150.034149	56.977123
2021-06-22 00:00:00	205.986237	78.468407	55.656391	150.034149	57.297592

2021-06-23 00:00:00	206.624100	77.464508	53.580021	151.467758	57.269310
2021-06-24 00:00:00	211.988068	77.763733	54.140156	152.630142	57.863121
2021-06-25 00:00:00	209.059616	78.632492	54.487823	154.974274	57.787720
2021-06-28 00:00:00	209.020966	78.883484	54.178783	151.109360	56.166531
2021-06-29 00:00:00	207.890198	78.429794	54.603722	149.317337	55.657555
2021-06-30 00:00:00	210.335403	78.526321	55.067284	149.840424	57.401272
2021-07-02 00:00:00	210.461029	78.864166	56.419334	152.465439	59.144989
2021-07-06 00:00:00	206.363144	79.124794	55.924683	150.625031	56.816887
2021-07-07 00:00:00	207.493942	79.790855	56.419338	150.179443	55.619854
2021-07-08 00:00:00	205.000412	79.481949	56.477531	147.680344	55.808357
2021-07-09 00:00:00	210.132431	79.568832	56.283550	155.516724	56.675499
2021-07-12 00:00:00	211.253540	80.051476	56.506626	159.681915	56.364468
2021-07-13 00:00:00	207.977173	79.771538	56.079868	157.734909	56.044003
2021-07-14 00:00:00	204.546158	80.341072	56.031372	153.860306	54.356834
2021-07-15 00:00:00	204.323868	80.727173	56.205963	155.322983	53.800732
2021-07-16 00:00:00	200.979858	81.460800	55.818001	152.581711	52.311501
2021-07-19 00:00:00	197.326370	81.055374	54.925686	148.794281	50.614918
2021-07-20 00:00:00	202.068115	80.249870	55.362144	153.027283	51.340675
2021-07-21 00:00:00	204.759644	79.754921	56.070171	158.093323	53.744179
2021-07-22 00:00:00	203.234131	79.424942	56.050774	156.369110	53.414288
2021-07-23 00:00:00	203.593628	80.822456	56.603619	155.061447	52.559505
2021-07-26 00:00:00	205.051147	81.608551	56.933384	157.250595	54.012630
2021-07-27 00:00:00	203.953140	81.472679	56.797600	157.444290	53.499767
2021-07-28 00:00:00	205.449509	80.725410	56.235058	156.330383	53.870167
2021-07-29 00:00:00	206.537796	81.055367	56.361141	158.771378	54.212082
2021-07-30 00:00:00	200.892410	77.154007	57.059479	156.630646	53.243328
2021-08-03 00:00:00	202.592804	77.076363	56.477531	156.369110	53.794186
2021-08-04 00:00:00	198.725586	75.940895	56.225357	156.136642	52.170109
2021-08-05 00:00:00	201.319931	76.571716	56.584225	158.073944	53.138859
2021-08-06 00:00:00	202.447067	76.309662	56.923687	161.938202	53.661217
2021-08-09 00:00:00	202.971756	76.028236	56.526024	162.191956	52.663982
2021-08-10 00:00:00	208.005020	76.406731	56.690914	166.544098	53.642227
2021-08-11 00:00:00	215.379974	76.765808	57.311649	170.330322	54.316555
2021-08-12 00:00:00	214.000198	76.464958	57.253456	172.652756	54.174095
2021-08-13 00:00:00	212.377533	77.095779	57.534729	173.433426	53.157856
2021-08-16 00:00:00	211.541885	77.425751	57.466835	173.033340	52.056133
2021-08-17 00:00:00	207.392853	77.668365	57.680214	169.091003	51.780712
2021-08-18 00:00:00	203.865692	75.853554	57.253456	167.861465	50.840446
2021-08-19 00:00:00	198.657532	76.639648	57.185562	164.036240	49.805210
2021-08-20 00:00:00	199.133682	76.474663	57.622021	164.153351	50.118626
2021-08-23 00:00:00	203.214676	76.067062	58.000282	165.256027	52.037148
2021-08-24 00:00:00	206.566925	75.378006	57.738403	165.939087	52.625984
2021-08-25 00:00:00	208.675446	75.358597	57.689915	169.725281	53.205338
2021-08-26 00:00:00	205.255203	75.028618	57.224358	167.480911	52.360054
2021-08-27 00:00:00	206.800156	75.154793	57.612320	171.550095	53.889168
2021-08-30 00:00:00	205.459229	75.358597	57.912991	161.196594	53.376297
2021-08-31 00:00:00	204.895676	75.649742	58.853798	161.957718	52.739964
2021-09-01 00:00:00	202.068115	76.018532	59.299957	157.771439	51.904175

2021-09-02 00:00:00	205.779877	76.202919	59.891594	156.190598	53.756199
2021-09-03 00:00:00	204.409836	75.610931	59.862499	153.458282	53.414284
2021-09-07 00:00:00	202.330475	74.630737	58.485233	153.136261	53.167351
2021-09-08 00:00:00	200.911850	75.484764	58.330048	150.862610	52.502518
2021-09-09 00:00:00	199.600082	75.018929	57.767506	152.014053	52.787449
2021-09-10 00:00:00	199.201675	74.766602	57.515331	151.799377	52.929909
2021-09-13 00:00:00	200.357986	75.096558	58.165165	155.087906	54.696457
2021-09-14 00:00:00	196.597641	75.018929	53.916985	150.657669	54.079117
2021-09-15 00:00:00	199.901306	74.931580	55.284550	155.068420	56.339535
2021-09-16 00:00:00	197.831650	74.213417	55.556118	156.297928	56.254055
2021-09-17 00:00:00	194.090744	73.980507	55.391239	155.712448	55.959629
2021-09-20 00:00:00	185.413742	73.922264	54.789902	152.589798	54.202587
2021-09-21 00:00:00	184.461472	74.135765	54.372837	152.716660	56.349033
2021-09-22 00:00:00	185.928726	74.174591	54.334042	155.761230	59.131821
2021-09-23 00:00:00	191.049377	74.407516	54.479527	162.006531	60.508961
2021-09-24 00:00:00	191.243729	74.368698	54.547424	162.152908	61.753143
2021-09-27 00:00:00	194.333649	73.767006	54.595921	165.656097	63.358223
2021-09-28 00:00:00	194.868073	73.582603	53.102264	163.333649	64.393471
2021-09-29 00:00:00	192.263992	74.805412	54.246750	162.523712	64.621399
2021-09-30 00:00:00	186.531143	73.349686	54.246750	158.054413	64.364960
2021-10-01 00:00:00	188.824295	73.349686	55.488224	162.513931	66.577896
2021-10-04 00:00:00	187.658295	72.845024	55.071171	162.094345	67.898056
2021-10-05 00:00:00	187.046127	72.223907	55.324459	164.641251	68.126022
2021-10-06 00:00:00	186.424240	72.883842	55.431618	163.811798	68.201988
2021-10-07 00:00:00	190.204041	73.359383	55.918716	163.821548	67.917068
2021-10-08 00:00:00	189.630783	73.359383	53.288391	164.719315	71.155724
2021-10-12 00:00:00	184.539215	73.437027	50.979557	163.597122	69.721611
2021-10-13 00:00:00	183.586990	73.825218	51.330261	158.181290	69.550652
2021-10-14 00:00:00	188.824295	74.339584	52.596722	161.996750	70.139488
2021-10-15 00:00:00	193.381409	73.999908	52.625942	164.309479	70.414925
2021-10-18 00:00:00	192.565186	73.058533	51.846588	165.070602	70.756836
2021-10-19 00:00:00	195.441345	72.573296	52.840267	165.685364	71.535629
2021-10-20 00:00:00	198.404938	73.325089	53.298138	169.061737	72.200455
2021-10-21 00:00:00	196.413025	73.120056	52.635685	161.684479	70.842308
2021-10-22 00:00:00	196.041733	73.715630	52.820778	163.782532	71.915543
2021-10-25 00:00:00	197.565903	73.364143	52.684395	164.602219	72.675346
2021-10-26 00:00:00	195.054947	74.360039	52.372650	160.864807	73.159721
2021-10-27 00:00:00	191.625534	74.106186	51.086716	148.813354	71.115028
2021-10-28 00:00:00	199.402725	75.063019	50.560650	148.813354	71.802956
2021-10-29 00:00:00	199.324570	74.389328	50.102779	147.378876	71.172356
2021-11-01 00:00:00	200.663101	74.154999	50.911362	149.311020	71.267899
2021-11-02 00:00:00	202.363144	74.467438	51.281555	148.237625	69.777374
2021-11-03 00:00:00	198.875137	75.443802	51.583557	150.179504	69.500290
2021-11-04 00:00:00	198.914215	75.463333	51.369228	149.750183	70.044914
2021-11-05 00:00:00	201.151627	76.000328	52.509041	151.126068	72.089600
2021-11-08 00:00:00	209.329376	75.902695	52.109619	151.760345	72.548225
2021-11-09 00:00:00	204.991348	76.205376	52.362911	151.662766	72.376228
2021-11-10 00:00:00	201.923477	76.625206	52.772072	152.501999	69.748718

2021-11-11 00:00:00	203.740768	76.146790	52.275230	153.350937	68.927025
2021-11-12 00:00:00	204.463776	76.185837	52.119362	153.595856	69.137230
2021-11-15 00:00:00	202.939590	76.449463	52.002464	153.164841	69.481194
2021-11-16 00:00:00	200.711945	76.039391	51.749168	150.676743	69.404739
2021-11-17 00:00:00	198.318222	75.746475	52.343426	148.844971	68.764587
2021-11-18 00:00:00	196.794052	74.584595	51.417942	149.863693	69.481194
2021-11-19 00:00:00	195.836563	75.375450	50.570393	148.227829	66.509705
2021-11-22 00:00:00	197.732025	75.726944	50.180714	150.079193	68.688156
2021-11-23 00:00:00	200.614258	76.088203	50.697041	153.096237	70.493980
2021-11-24 00:00:00	202.314301	75.922218	50.541168	152.675049	71.497223
2021-11-26 00:00:00	194.165833	75.238770	49.781300	146.111969	68.296417
2021-11-29 00:00:00	191.420380	75.873405	50.200203	144.015701	68.936584
2021-11-30 00:00:00	188.909393	73.246979	48.690201	137.658310	67.006546
2021-12-01 00:00:00	187.072556	73.608238	47.813427	135.542450	66.117966
2021-12-02 00:00:00	192.270386	73.696114	50.170975	140.430496	68.086205
2021-12-03 00:00:00	193.257202	74.955612	50.443748	139.000305	67.942886
2021-12-06 00:00:00	196.657257	76.722847	50.999035	142.957779	69.567177
2021-12-07 00:00:00	199.793564	75.971031	48.300526	145.543808	71.248787
2021-12-08 00:00:00	199.500443	75.922218	47.677040	145.769104	70.809288
2021-12-09 00:00:00	199.441818	76.156548	46.576202	146.121765	69.318764
2021-12-10 00:00:00	198.787216	77.591805	47.199688	147.336426	70.216888
2021-12-13 00:00:00	196.627960	79.222336	46.478779	143.055710	67.856895
2021-12-14 00:00:00	197.008987	80.188942	47.501682	144.897308	67.532051
2021-12-15 00:00:00	197.898117	80.804047	46.936649	144.378143	67.560699
2021-12-16 00:00:00	201.434952	81.965919	47.579620	144.995255	68.506607
2021-12-17 00:00:00	196.745193	80.530670	47.491943	141.135773	65.554245
2021-12-20 00:00:00	190.970947	80.569725	47.150982	135.522873	65.544685
2021-12-21 00:00:00	193.755478	80.149879	47.599106	140.577408	67.532051
2021-12-22 00:00:00	197.507278	80.511147	47.764717	140.792923	67.914223
2021-12-23 00:00:00	201.464279	80.833336	48.738907	142.134933	68.019333
2021-12-29 00:00:00	202.568314	82.903244	49.284462	142.614899	69.672264
2021-12-30 00:00:00	201.347031	82.590797	49.284462	142.516968	69.060776
2021-12-31 00:00:00	201.991882	83.323082	49.031170	142.125122	69.156593
2022-01-04 00:00:00	213.071426	82.864189	49.136883	148.061279	73.745964
2022-01-05 00:00:00	214.703079	83.205910	49.166256	145.230362	72.481255
2022-01-06 00:00:00	216.891632	82.659142	49.450165	147.649857	75.202286
2022-01-07 00:00:00	219.041107	82.444344	48.999821	151.528961	77.262230
2022-01-10 00:00:00	216.549652	81.731598	49.459961	153.938675	77.635895
2022-01-11 00:00:00	214.898468	81.204361	50.066948	155.270905	80.088654
2022-01-12 00:00:00	217.292206	80.911453	49.880936	155.545181	80.864738
2022-01-13 00:00:00	221.786560	80.589249	50.204014	158.072449	80.117409
2022-01-14 00:00:00	223.682007	81.477745	50.595619	157.279007	83.106728
2022-01-18 00:00:00	224.590652	81.155548	49.127094	153.870132	83.844460
2022-01-19 00:00:00	217.620071	82.073326	49.273949	148.511887	83.624100
2022-01-20 00:00:00	212.681747	81.321526	49.166256	147.199280	82.043213
2022-01-21 00:00:00	210.188019	82.136307	48.686539	143.525909	79.255112
2022-01-24 00:00:00	210.423660	82.136307	49.019402	145.269531	79.542534
2022-01-25 00:00:00	210.404007	80.241692	48.627792	149.050659	83.461220

2022-01-26 00:00:00	210.384369	79.898102	47.443184	141.939026	83.413307
2022-01-27 00:00:00	208.303009	81.184082	47.002625	138.784790	85.904411
2022-01-28 00:00:00	197.493683	81.527687	48.676750	139.705597	85.482841
2022-01-31 00:00:00	197.886383	80.938675	48.941078	143.731628	84.907967
2022-02-01 00:00:00	201.607330	80.418388	48.892128	147.414795	87.705673
2022-02-02 00:00:00	201.204788	81.282265	48.941078	146.562546	88.347595
2022-02-03 00:00:00	196.934082	81.213547	48.598419	145.259735	87.063721
2022-02-04 00:00:00	194.793808	79.633057	48.294930	147.277664	88.021843
2022-02-07 00:00:00	196.178116	79.633057	47.834793	149.060455	89.047020
2022-02-08 00:00:00	197.827484	79.436714	48.177444	152.792603	87.504471
2022-02-09 00:00:00	199.889221	79.387642	48.725697	155.594147	89.056602
2022-02-10 00:00:00	199.368866	78.258713	47.893532	154.291321	88.060165
2022-02-11 00:00:00	197.572250	78.072197	46.620808	153.396515	90.053429
2022-02-14 00:00:00	196.246841	77.807152	46.405426	152.550873	88.156456
2022-02-15 00:00:00	199.702667	77.139618	47.041786	156.238281	86.355766
2022-02-16 00:00:00	199.928482	76.904007	47.080948	156.208786	86.866127
2022-02-17 00:00:00	191.190689	77.699165	45.788647	151.783890	87.780914
2022-02-18 00:00:00	188.451538	78.091827	45.661373	151.390564	86.307625
2022-02-22 00:00:00	187.725037	77.404663	45.955070	150.377747	84.574341
2022-02-23 00:00:00	183.267776	77.198517	44.183052	146.975494	84.959526
2022-02-24 00:00:00	181.323868	74.194603	45.044590	145.303864	84.478050
2022-02-25 00:00:00	183.650665	76.707680	46.082348	151.026733	87.886826
2022-02-28 00:00:00	184.161194	75.539482	45.778851	150.712097	91.343765
2022-03-01 00:00:00	179.497772	74.646172	45.416618	138.332199	93.365921
2022-03-02 00:00:00	189.099518	75.294067	45.406826	138.843506	94.405891
2022-03-03 00:00:00	191.298691	75.981239	46.131302	136.208252	93.799248
2022-03-04 00:00:00	192.093918	75.941971	46.219410	131.881653	96.553230
2022-03-07 00:00:00	193.114960	75.274445	45.328506	122.717224	97.516159
2022-03-08 00:00:00	206.172577	73.497620	45.162075	123.975853	95.137726
2022-03-09 00:00:00	205.956573	74.155334	45.152283	129.708557	92.643715
2022-03-10 00:00:00	207.929947	72.486496	44.437599	128.086090	96.023621
2022-03-11 00:00:00	210.914536	72.417778	44.075363	127.918930	94.762169
2022-03-14 00:00:00	211.513428	72.604294	44.026413	131.439178	92.971115
2022-03-15 00:00:00	212.514847	74.106255	44.584454	132.029190	91.526726
2022-03-16 00:00:00	212.141754	73.772484	45.259975	135.539581	91.305252
2022-03-17 00:00:00	217.659332	73.752846	45.504726	135.254425	95.166603
2022-03-18 00:00:00	216.883728	70.876556	45.925705	135.903427	95.908058
2022-03-21 00:00:00	219.632706	72.790810	45.690742	132.196335	98.950935
2022-03-22 00:00:00	218.650925	73.134407	46.229206	135.864075	97.997627
2022-03-23 00:00:00	218.120758	72.280342	45.543888	131.753845	100.501244
2022-03-24 00:00:00	218.160034	72.299980	45.818012	132.815826	100.664948
2022-03-25 00:00:00	219.289078	73.409271	46.141090	133.612305	103.515236
2022-03-28 00:00:00	217.806595	74.008087	46.532696	131.026199	99.663490
2022-03-29 00:00:00	217.011353	74.803238	46.777451	133.425476	96.957657
2022-03-30 00:00:00	219.014175	74.960304	46.689339	132.225830	97.643387
2022-03-31 00:00:00	218.758926	74.440018	45.837593	129.098892	96.580994
2022-04-01 00:00:00	215.764511	75.019203	46.699131	128.705566	97.141174
2022-04-04 00:00:00	216.785538	75.186081	47.100529	129.472549	97.112183

2022-04-05 00:00:00	212.082840	76.030327	47.130062	128.243423	94.697670
2022-04-06 00:00:00	212.269394	77.365395	46.992226	127.122452	94.205101
2022-04-07 00:00:00	211.965042	78.945885	46.421192	127.151939	96.542358
2022-04-08 00:00:00	213.074432	78.778999	46.687016	129.561050	99.526718
2022-04-11 00:00:00	212.112305	78.965515	46.874081	129.039902	94.630051
2022-04-12 00:00:00	212.750443	79.515251	46.519646	130.023209	96.580994
2022-04-13 00:00:00	214.291840	79.505432	47.169445	130.406693	96.803131
2022-04-14 00:00:00	223.657974	79.456360	46.844547	130.377197	97.904152
2022-04-18 00:00:00	225.729507	78.543396	46.135677	135.677261	99.932350
2022-04-19 00:00:00	227.928696	79.132401	47.366356	139.227005	98.087654
2022-04-20 00:00:00	230.795471	80.504921	46.667332	139.482681	99.159698
2022-04-21 00:00:00	228.331207	81.067749	46.214439	137.643875	95.296471
2022-04-22 00:00:00	213.376144	80.080330	44.678551	133.022324	92.727402
2022-04-25 00:00:00	213.770737	80.781395	45.003452	134.182617	88.526146
2022-04-26 00:00:00	207.457245	79.507622	43.881073	130.023209	88.197762
2022-04-27 00:00:00	211.067780	79.675484	43.762924	122.274727	89.878273
2022-04-28 00:00:00	209.568329	80.198822	41.055435	127.220779	94.214760
2022-04-29 00:00:00	207.693985	76.081253	39.145420	122.540230	92.254166
2022-05-02 00:00:00	209.203323	74.234764	39.824757	124.526505	92.640488
2022-05-03 00:00:00	210.732376	73.553436	39.745991	126.502953	95.547585
2022-05-04 00:00:00	219.581100	76.031876	40.976669	132.058670	100.309021
2022-05-05 00:00:00	213.011139	75.133324	39.755836	128.154922	99.343216
2022-05-06 00:00:00	211.748444	75.873894	39.381710	124.919830	104.008072
2022-05-09 00:00:00	203.501450	76.693451	39.145420	121.163582	93.876724
2022-05-10 00:00:00	200.246063	75.706032	39.677074	119.010132	94.649368
2022-05-11 00:00:00	202.436050	75.785027	39.224186	117.594162	95.653824
2022-05-12 00:00:00	200.285522	76.574966	40.750225	112.244949	96.194672
2022-05-13 00:00:00	201.567963	77.414276	40.838833	115.121506	99.391502
2022-05-16 00:00:00	204.389297	77.740135	41.222805	112.660126	102.350441
2022-05-17 00:00:00	210.209534	77.779625	42.177814	119.026108	103.825066
2022-05-18 00:00:00	205.129150	74.758102	41.478786	113.075294	101.360901
2022-05-19 00:00:00	203.965088	74.175514	41.370491	112.027481	101.487022
2022-05-20 00:00:00	195.145950	74.185387	41.360641	112.393227	101.884773
2022-05-24 00:00:00	202.870102	77.137802	42.404255	115.487251	106.211632
2022-05-25 00:00:00	206.480621	76.515717	43.024521	118.838295	107.880272
2022-05-26 00:00:00	210.110886	77.177299	43.447876	122.980141	109.772072
2022-05-27 00:00:00	214.204788	77.868492	43.477409	125.006577	111.178780
2022-05-31 00:00:00	212.932220	77.819122	43.595551	126.390488	109.005653
2022-06-01 00:00:00	214.628983	77.216789	43.250965	123.523819	112.294449
2022-06-02 00:00:00	217.026138	78.273331	43.122971	124.917610	111.528030
2022-06-03 00:00:00	219.886917	77.937614	42.266422	122.624275	114.593689
2022-06-06 00:00:00	220.607056	77.789497	41.626469	124.235542	113.875778
2022-06-07 00:00:00	224.030167	77.720375	41.971062	126.756233	119.046661
2022-06-08 00:00:00	226.693665	76.890945	42.177814	123.731400	118.222038
2022-06-09 00:00:00	220.646515	75.883766	41.528015	117.968407	115.020554
2022-06-10 00:00:00	212.271271	75.666527	40.986519	111.286102	113.342209
2022-06-13 00:00:00	204.083481	75.232071	39.578621	105.780121	108.423569
2022-06-14 00:00:00	203.896057	73.336197	39.224186	105.355064	108.161621

2022-06-15 00:00:00	203.215378	73.227592	39.509705	106.926788	106.066116
2022-06-16 00:00:00	192.156891	72.990608	37.324017	100.936432	99.362396
2022-06-17 00:00:00	190.035980	73.109100	38.111649	106.027245	90.941528
2022-06-21 00:00:00	193.715546	75.498672	37.885208	105.236435	96.316139
2022-06-22 00:00:00	185.290985	76.930443	38.298714	104.415977	90.281815
2022-06-23 00:00:00	176.254807	77.888237	38.505470	103.012299	85.266167
2022-06-24 00:00:00	182.982620	79.369377	38.958359	108.824715	88.196007
2022-06-27 00:00:00	185.054245	78.875671	39.214340	108.340355	90.170914
2022-06-28 00:00:00	184.906265	77.888237	38.525162	107.272758	93.094162
2022-06-29 00:00:00	180.999786	78.668312	38.722073	104.396210	89.418098
2022-06-30 00:00:00	176.343597	79.132401	38.633461	102.992531	87.804939
2022-07-05 00:00:00	171.411179	79.981590	39.478905	105.434143	82.750366
2022-07-06 00:00:00	169.980774	80.001335	39.478905	104.821266	81.479385
2022-07-07 00:00:00	177.843048	78.460945	39.587933	107.589081	84.422188
2022-07-08 00:00:00	176.679001	77.364906	39.607758	107.361732	84.529732
2022-07-11 00:00:00	172.654160	77.710503	38.824718	105.938278	83.640045
2022-07-12 00:00:00	172.131317	77.325409	39.399609	105.809769	81.586929
2022-07-13 00:00:00	171.519684	77.443893	39.528465	104.317123	81.254524
2022-07-14 00:00:00	167.642822	77.355034	39.231110	102.261024	79.788010
2022-07-15 00:00:00	171.036316	77.167419	40.539474	106.907013	81.039429
2022-07-18 00:00:00	171.144836	76.150375	40.182648	109.220123	83.170769
2022-07-19 00:00:00	178.296982	76.555214	40.945858	111.721039	86.504639
2022-07-20 00:00:00	178.773788	75.114716	41.451363	113.441048	88.684845
2022-07-21 00:00:00	179.787003	75.661110	41.897396	112.956673	86.944588
2022-07-22 00:00:00	177.432755	76.962532	42.224483	107.678055	86.162445
2022-07-25 00:00:00	180.601547	77.340034	42.095634	109.655067	89.994934
2022-07-26 00:00:00	180.025406	78.015587	42.343430	105.137589	89.056358
2022-07-27 00:00:00	184.018692	78.244080	42.987698	107.687935	91.187691
2022-07-28 00:00:00	186.591476	78.671265	39.062607	106.472069	91.960052
2022-07-29 00:00:00	196.932281	78.224205	37.189266	108.567703	95.254814
2022-08-02 00:00:00	182.290253	79.734253	37.347855	105.710930	92.595543
2022-08-03 00:00:00	181.654510	80.896591	38.140804	107.806557	89.281227
2022-08-04 00:00:00	182.419388	80.360123	38.586838	105.661499	87.873375
2022-08-05 00:00:00	184.157761	79.903137	37.932655	105.701263	90.777061
2022-08-08 00:00:00	184.574966	80.280647	38.249836	107.182449	91.539650
2022-08-09 00:00:00	184.793503	79.535561	37.823624	105.750961	93.377693
2022-08-10 00:00:00	189.452332	79.813728	38.616573	112.073357	93.837204
2022-08-11 00:00:00	192.710526	78.979233	39.052696	114.588394	98.119408
2022-08-12 00:00:00	195.531647	79.764061	39.647404	115.055618	100.456047
2022-08-15 00:00:00	194.647568	80.707832	40.212379	112.987923	98.963303
2022-08-16 00:00:00	196.207138	81.641678	40.004230	114.777275	98.305313
2022-08-17 00:00:00	194.627701	81.631737	38.913925	112.938217	99.542725
2022-08-18 00:00:00	196.038269	82.307289	38.269657	113.176796	102.999611
2022-08-19 00:00:00	194.299896	82.724533	38.339043	111.546494	103.254951
2022-08-22 00:00:00	190.485413	81.423119	37.288383	108.355476	103.353157
2022-08-23 00:00:00	195.899200	80.429665	36.911736	109.160683	106.505608
2022-08-24 00:00:00	192.869476	80.469406	36.782879	109.707436	108.538490
2022-08-25 00:00:00	197.558105	80.389931	37.268559	112.987923	110.070526

2022-08-26	00:00:00	190.644348	78.691132	36.475613	109.170624	110.109810
2022-08-29	00:00:00	190.505280	79.068642	35.970108	106.566116	111.386497
2022-08-30	00:00:00	185.697464	78.482506	35.405132	106.198311	108.518852
2022-08-31	00:00:00	183.482285	77.697678	35.870987	105.194275	107.487679
2022-09-01	00:00:00	181.227371	79.277267	36.574734	104.190247	105.602097
2022-09-02	00:00:00	179.628067	77.657944	35.444778	103.603737	108.283157
2022-09-06	00:00:00	179.459198	77.260559	34.433773	101.565857	106.682373
2022-09-07	00:00:00	179.657867	78.035454	34.671654	104.269775	104.845909
2022-09-08	00:00:00	181.932648	77.330101	34.067032	105.810616	106.377937
2022-09-09	00:00:00	188.230515	77.518860	35.117691	107.679497	109.962494
2022-09-12	00:00:00	191.121155	77.389717	35.375397	109.140800	112.339111
2022-09-13	00:00:00	183.084930	74.935890	33.165054	100.442543	110.316048
2022-09-14	00:00:00	183.422668	75.561760	34.166153	100.054848	115.599579
2022-09-15	00:00:00	181.277039	74.737206	33.700294	102.162308	113.488129
2022-09-16	00:00:00	178.277115	75.194191	34.215710	101.078758	111.101700
2022-09-19	00:00:00	180.899567	75.512093	34.156239	101.874031	110.846359
2022-09-20	00:00:00	176.806946	74.667664	33.541706	100.770592	110.060707
2022-09-21	00:00:00	170.807083	74.409363	32.411755	98.901703	109.098274
2022-09-22	00:00:00	169.416397	74.866348	32.183781	94.905479	108.086739
2022-09-23	00:00:00	163.148346	75.035233	31.559334	93.225471	98.786522
2022-09-26	00:00:00	161.539093	74.508705	30.617708	90.760139	97.421448
2022-09-27	00:00:00	161.360306	72.104561	29.993261	90.849602	96.989342
2022-09-28	00:00:00	166.644928	72.432404	30.885328	94.478020	102.607864
2022-09-29	00:00:00	164.797302	71.299866	30.161764	93.126060	103.265358
2022-09-30	00:00:00	162.989395	69.789825	29.071459	91.624992	101.950378
2022-10-03	00:00:00	170.091873	70.644188	30.360001	95.004890	109.551331
2022-10-04	00:00:00	178.436050	71.369408	30.990000	99.279465	115.179825
2022-10-05	00:00:00	177.194351	70.644188	30.740000	98.354965	115.488640
2022-10-06	00:00:00	177.621490	69.104340	30.049999	96.158028	117.202095
2022-10-07	00:00:00	176.369873	68.538078	29.270000	93.314941	118.058823
2022-10-11	00:00:00	178.555252	68.597687	28.680000	93.205589	115.139977
2022-10-12	00:00:00	178.306915	68.657295	28.690001	92.937187	115.857231
2022-10-13	00:00:00	181.922714	70.544846	30.230000	97.241585	122.272713
2022-10-14	00:00:00	177.005615	70.862755	30.049999	94.825951	117.510910
2022-10-17	00:00:00	179.598267	71.667442	30.820000	96.893654	117.909386
2022-10-18	00:00:00	182.329987	72.442329	30.750000	99.001114	117.441177
2022-10-19	00:00:00	183.184280	71.279999	30.389999	94.666901	120.648918
2022-10-20	00:00:00	179.339981	70.250000	30.459999	94.418381	121.346252
2022-10-21	00:00:00	190.220001	71.470001	30.480000	95.680862	124.016052
2022-10-24	00:00:00	191.300003	72.019997	31.080000	96.983116	124.663574
2022-10-25	00:00:00	194.839996	72.760002	31.559999	100.979355	123.468147
2022-10-26	00:00:00	196.960007	73.430000	31.500000	101.317337	126.088135
2022-10-27	00:00:00	212.139999	73.230003	31.969999	101.526093	126.157867
2022-10-28	00:00:00	219.339996	74.639999	31.950001	106.466705	126.685844
2022-10-31	00:00:00	216.460007	73.839996	31.740000	105.393089	125.609955
2022-11-01	00:00:00	218.500000	73.739998	31.559999	106.178421	127.293526
2022-11-02	00:00:00	214.539993	72.769997	30.910000	102.599709	126.028366
2022-11-03	00:00:00	219.259995	72.389999	30.379999	98.235672	133.310532

2022-11-04 00:00:00	227.850006	73.190002	31.000000	101.923729	131.816254
2022-11-07 00:00:00	228.610001	73.500000	31.600000	104.120659	134.426270
2022-11-08 00:00:00	229.809998	73.809998	31.900000	104.915932	133.928177
2022-11-09 00:00:00	225.539993	73.459999	31.389999	100.870003	124.783119
2022-11-10 00:00:00	232.449997	74.970001	32.770000	113.419998	128.967133
2022-11-11 00:00:00	236.490005	74.570000	34.020000	116.250000	133.449997
2022-11-14 00:00:00	236.500000	74.570000	34.130001	111.570000	133.029999
2022-11-15 00:00:00	234.589996	75.320000	34.279999	103.559998	134.089996
2022-11-16 00:00:00	232.419998	76.010002	33.980000	101.760002	129.240005
2022-11-17 00:00:00	230.440002	75.290001	34.259998	99.440002	131.190002
2022-11-18 00:00:00	231.429993	76.459999	34.500000	98.959999	128.589996
2022-11-21 00:00:00	232.169998	76.919998	34.349998	101.309998	125.489998
2022-11-22 00:00:00	237.259995	76.370003	35.099998	101.550003	129.979996
2022-11-23 00:00:00	236.919998	76.930000	35.529999	101.629997	126.739998

	COST	CSC0	CVS	GM	GOOG \
Date					
2021-03-16 00:00:00	323.250336	47.165886	72.076775	56.989883	104.625999
2021-03-17 00:00:00	325.166626	46.928493	71.059036	59.913212	104.554001
2021-03-18 00:00:00	319.032532	46.339745	71.510300	59.134987	101.810997
2021-03-19 00:00:00	324.890015	46.510677	70.262138	59.683735	102.160004
2021-03-22 00:00:00	330.401825	47.764130	70.540565	57.967651	101.929497
2021-03-23 00:00:00	336.180359	47.488743	69.033165	56.032074	102.648003
2021-03-24 00:00:00	333.908478	47.146900	70.290924	55.682873	102.252998
2021-03-25 00:00:00	342.106995	47.963535	71.116638	56.471069	102.218002
2021-03-26 00:00:00	347.717590	49.919685	72.931282	56.391254	101.777496
2021-03-29 00:00:00	351.797119	49.872208	73.257729	55.812572	102.797501
2021-03-30 00:00:00	345.475342	49.160015	73.046501	58.376717	102.777000
2021-03-31 00:00:00	348.171936	49.103039	72.230400	57.329109	103.431503
2021-04-01 00:00:00	350.601898	49.359428	71.337471	57.668335	106.887497
2021-04-05 00:00:00	356.410034	50.124546	72.047966	60.900959	111.277496
2021-04-06 00:00:00	355.718597	49.761116	71.644714	61.798904	111.237503
2021-04-07 00:00:00	354.424591	49.512451	71.519890	60.691437	112.484001
2021-04-08 00:00:00	356.805145	49.646347	70.847809	59.953121	113.272003
2021-04-09 00:00:00	358.770813	49.818497	71.116638	60.022961	114.293999
2021-04-12 00:00:00	360.351257	49.321171	71.491089	59.524101	112.739502
2021-04-13 00:00:00	360.746368	49.407249	71.068634	58.356766	113.363503
2021-04-14 00:00:00	358.731354	49.129890	72.086365	58.346786	112.741997
2021-04-15 00:00:00	364.292480	49.388119	72.758469	58.476494	114.833000
2021-04-16 00:00:00	366.189056	50.497536	72.854469	58.576263	114.888000
2021-04-19 00:00:00	365.033356	50.545357	72.729660	57.748154	115.120003
2021-04-20 00:00:00	367.186737	49.531582	72.883286	55.642960	114.681503
2021-04-21 00:00:00	369.517853	49.665474	73.641777	57.359043	114.664497
2021-04-22 00:00:00	366.722473	49.254230	73.622452	56.530933	113.396004
2021-04-23 00:00:00	368.717743	49.646347	73.496819	57.398952	115.764999
2021-04-26 00:00:00	364.015930	49.388119	73.206879	58.077400	116.336998
2021-04-27 00:00:00	365.685272	49.129890	72.588364	58.835674	115.356003
2021-04-28 00:00:00	365.072876	48.881229	72.868637	58.416626	118.995499

2021-04-29 00:00:00	369.764923	49.215969	73.806068	56.441139	121.494499
2021-04-30 00:00:00	368.329620	48.689957	73.835068	57.089661	120.505997
2021-05-03 00:00:00	375.486511	48.938614	75.081757	57.019817	119.758499
2021-05-04 00:00:00	371.497284	48.498676	78.396606	55.213940	117.712502
2021-05-05 00:00:00	368.735474	48.900360	80.252136	57.448841	117.836998
2021-05-06 00:00:00	378.891754	50.153233	80.889977	58.586243	119.067497
2021-05-07 00:00:00	380.436035	51.100067	82.252647	58.855629	119.934502
2021-05-10 00:00:00	377.624695	50.841839	82.967804	57.279224	117.083000
2021-05-11 00:00:00	374.358063	50.526230	81.537491	55.603050	115.438004
2021-05-12 00:00:00	368.438477	49.349865	80.580727	53.637539	111.954002
2021-05-13 00:00:00	375.694366	50.201057	81.440849	54.475624	113.098503
2021-05-14 00:00:00	380.535004	50.593178	81.498848	55.872437	115.807999
2021-05-17 00:00:00	380.079620	50.631432	81.721100	55.912346	116.070503
2021-05-18 00:00:00	378.941254	50.621868	85.635139	55.762688	115.171501
2021-05-19 00:00:00	375.823120	50.181927	86.215004	55.403507	115.435501
2021-05-20 00:00:00	379.703461	50.545357	86.079704	55.383553	117.804497
2021-05-21 00:00:00	376.872406	50.143673	86.794861	56.590797	117.254997
2021-05-25 00:00:00	381.485260	50.985294	85.722122	56.630703	120.453499
2021-05-26 00:00:00	381.722870	50.602737	84.388451	57.947701	121.676498
2021-05-27 00:00:00	383.583832	50.612305	83.518669	59.633850	120.125504
2021-05-28 00:00:00	374.447144	50.593178	83.538002	59.174900	120.578003
2021-06-01 00:00:00	374.407562	50.325386	82.987129	59.514126	121.490501
2021-06-02 00:00:00	376.743683	50.650558	83.103104	59.514126	121.064003
2021-06-03 00:00:00	379.990540	51.004429	84.137177	63.315441	120.230499
2021-06-04 00:00:00	383.603607	51.712154	83.566986	63.225647	122.587997
2021-06-07 00:00:00	376.555573	51.568691	83.431686	63.085968	123.304497
2021-06-08 00:00:00	375.862701	51.769539	82.929146	63.774395	124.142502
2021-06-09 00:00:00	376.120056	51.664341	82.098015	62.627014	124.570000
2021-06-10 00:00:00	379.139221	52.630295	82.629547	61.200272	126.080002
2021-06-11 00:00:00	377.971130	52.381630	82.600563	61.349934	125.696503
2021-06-14 00:00:00	379.881683	51.807793	81.779099	60.651527	126.351997
2021-06-15 00:00:00	380.030182	51.444363	82.532921	60.671482	126.032997
2021-06-16 00:00:00	375.575623	51.138321	81.895073	61.619316	125.696503
2021-06-17 00:00:00	380.861694	50.813148	81.402199	59.943146	126.371002
2021-06-18 00:00:00	377.030792	49.799370	79.633636	58.626148	125.567497
2021-06-21 00:00:00	382.890961	50.860966	81.199242	59.164921	126.455002
2021-06-22 00:00:00	388.216553	50.937477	80.996292	59.105057	126.999496
2021-06-23 00:00:00	388.008698	50.459282	80.918983	59.983051	126.461502
2021-06-24 00:00:00	388.107666	50.478405	80.957634	59.903236	127.281998
2021-06-25 00:00:00	390.523010	50.746204	81.257225	60.162640	126.995003
2021-06-28 00:00:00	392.532532	50.650558	81.295891	58.506424	126.819504
2021-06-29 00:00:00	394.759766	50.602737	80.687035	58.695992	126.018501
2021-06-30 00:00:00	391.671326	50.688812	80.638718	59.035213	125.316002
2021-07-02 00:00:00	394.908264	51.562271	79.662621	58.825695	128.718994
2021-07-06 00:00:00	394.829041	51.022953	78.454590	57.329109	129.770996
2021-07-07 00:00:00	400.590240	51.292606	78.609207	56.461094	130.077499
2021-07-08 00:00:00	403.035278	51.292606	77.526825	55.932301	129.177002
2021-07-09 00:00:00	408.202515	51.754879	78.589882	58.626148	129.574493

2021-07-12 00:00:00	403.757904	51.263718	79.073097	58.835674	130.563995
2021-07-13 00:00:00	402.946167	51.350395	78.918488	58.596218	130.994507
2021-07-14 00:00:00	405.807037	52.091953	79.652962	57.867882	132.082504
2021-07-15 00:00:00	407.658112	51.668205	79.314705	56.820274	131.266495
2021-07-16 00:00:00	406.222717	51.716358	78.976463	55.333668	131.845505
2021-07-19 00:00:00	409.964508	51.100002	77.961708	54.056583	129.253998
2021-07-20 00:00:00	412.033386	51.600792	79.053780	56.022099	131.101501
2021-07-21 00:00:00	410.815857	51.889709	80.271469	56.920044	132.600494
2021-07-22 00:00:00	413.320282	52.525330	80.339523	55.513256	133.328506
2021-07-23 00:00:00	419.150726	53.189838	80.961784	54.814850	137.815994
2021-07-26 00:00:00	418.952789	53.420979	80.572884	55.642960	139.644501
2021-07-27 00:00:00	420.051575	53.237991	81.321533	54.874714	136.796494
2021-07-28 00:00:00	417.953003	52.746830	80.990967	55.363602	136.381500
2021-07-29 00:00:00	421.771210	53.035751	80.757607	57.149521	136.540497
2021-07-30 00:00:00	426.174591	53.324669	80.077019	56.710526	135.220993
2021-08-03 00:00:00	431.480438	54.172165	81.671555	57.748154	136.279999
2021-08-04 00:00:00	431.450684	53.632851	79.289482	52.599911	136.028503
2021-08-05 00:00:00	439.533447	53.700260	77.831055	54.315990	136.940002
2021-08-06 00:00:00	436.002808	53.536541	78.997787	54.924599	137.035995
2021-08-09 00:00:00	436.835907	53.420979	79.386696	53.827106	138.001999
2021-08-10 00:00:00	439.374756	53.555801	80.932617	54.136398	138.096497
2021-08-11 00:00:00	440.634277	53.796570	82.595222	54.146378	137.689499
2021-08-12 00:00:00	441.685547	54.306988	82.779953	54.495579	138.389496
2021-08-13 00:00:00	444.125275	54.384037	82.021576	53.527790	138.406006
2021-08-16 00:00:00	449.123627	54.201054	83.023026	52.829384	138.916000
2021-08-17 00:00:00	448.607941	53.941025	84.073090	50.355034	137.300507
2021-08-18 00:00:00	442.528503	53.112797	82.245186	50.724190	136.570007
2021-08-19 00:00:00	450.512085	55.154480	81.895187	48.968201	136.913498
2021-08-20 00:00:00	455.203064	56.069393	82.497993	48.688839	138.436996
2021-08-23 00:00:00	451.176575	56.377571	82.254929	48.070251	141.099503
2021-08-24 00:00:00	448.062531	57.128757	81.486824	49.457085	142.398499
2021-08-25 00:00:00	447.507111	57.157650	81.253471	49.586788	142.949997
2021-08-26 00:00:00	445.602936	57.013195	80.728439	48.509247	142.123001
2021-08-27 00:00:00	446.624420	56.839844	81.389603	49.686558	144.550507
2021-08-30 00:00:00	452.168274	56.945774	82.254929	49.057995	145.469498
2021-08-31 00:00:00	451.731934	56.839844	83.995300	48.898357	145.462006
2021-09-01 00:00:00	452.753448	56.859100	83.334152	48.998131	145.841995
2021-09-02 00:00:00	457.166718	57.330997	84.549507	48.838497	144.218994
2021-09-03 00:00:00	458.733704	57.225063	85.045372	48.708794	144.774994
2021-09-07 00:00:00	455.808044	56.705013	84.180046	48.609020	145.518997
2021-09-08 00:00:00	461.857758	56.512394	83.830017	48.858452	144.883499
2021-09-09 00:00:00	462.095734	56.435352	83.042480	48.309700	144.913498
2021-09-10 00:00:00	461.322144	55.751583	81.467377	49.377270	141.921005
2021-09-13 00:00:00	455.867554	55.953823	82.167419	50.704235	143.464996
2021-09-14 00:00:00	454.627838	55.732327	81.564606	50.624420	143.406006
2021-09-15 00:00:00	456.928772	55.433777	83.168869	51.701958	145.205994
2021-09-16 00:00:00	459.487457	55.212269	82.984131	51.402641	144.373505
2021-09-17 00:00:00	455.718781	54.749996	83.139702	51.213078	141.463501

2021-09-20 00:00:00	447.417877	53.825462	82.235481	49.257538	139.016998
2021-09-21 00:00:00	448.379852	53.218731	81.603493	49.257538	139.646500
2021-09-22 00:00:00	448.598022	53.469128	81.535439	50.664326	140.938507
2021-09-23 00:00:00	449.044281	54.595909	82.507713	51.801727	141.826508
2021-09-24 00:00:00	463.890808	54.634430	82.361870	52.111023	142.632996
2021-09-27 00:00:00	456.760132	54.143272	83.363327	53.118725	141.501007
2021-09-28 00:00:00	443.659119	53.469128	83.285545	52.729610	136.184006
2021-09-29 00:00:00	448.062531	53.430603	84.384216	52.809429	134.520996
2021-09-30 00:00:00	445.642609	52.419395	82.507713	52.589931	133.265503
2021-10-01 00:00:00	444.631012	53.103165	81.739616	53.008976	136.462494
2021-10-04 00:00:00	436.508606	52.579597	81.486824	53.857037	133.764999
2021-10-05 00:00:00	442.558258	53.025593	81.321533	54.216217	136.177002
2021-10-06 00:00:00	445.632721	52.298424	80.845123	53.807152	137.354004
2021-10-07 00:00:00	449.133575	53.345558	81.866005	56.311432	139.185501
2021-10-08 00:00:00	448.121979	53.403728	82.031303	58.436581	140.056000
2021-10-12 00:00:00	443.183075	52.628071	81.467377	58.825695	136.712997
2021-10-13 00:00:00	441.626038	52.957729	80.854843	57.638405	137.899994
2021-10-14 00:00:00	446.941833	53.956387	82.216026	57.558586	141.412003
2021-10-15 00:00:00	448.657532	53.568558	83.460548	57.867882	141.675003
2021-10-18 00:00:00	458.138702	53.510380	82.138245	56.760410	142.960495
2021-10-19 00:00:00	463.226318	54.043644	82.536880	56.720501	143.822006
2021-10-20 00:00:00	465.894135	54.489643	84.150871	57.538631	142.414993
2021-10-21 00:00:00	473.292633	53.995167	84.942986	58.276947	142.780502
2021-10-22 00:00:00	478.013275	53.432819	85.588432	57.638405	138.625000
2021-10-25 00:00:00	486.056427	53.461903	85.744896	57.628426	138.772995
2021-10-26 00:00:00	481.524139	54.111519	86.370766	57.239315	139.671997
2021-10-27 00:00:00	485.074524	54.470257	86.145844	54.136398	146.427505
2021-10-28 00:00:00	487.269897	54.528427	86.664162	54.116447	146.128998
2021-10-29 00:00:00	488.273163	54.266644	87.309578	54.306015	148.270493
2021-11-01 00:00:00	488.600983	54.392681	88.649353	55.363602	143.774002
2021-11-02 00:00:00	493.686951	55.866425	89.138306	55.463371	145.863007
2021-11-03 00:00:00	498.991455	55.895519	94.213768	55.872437	146.789993
2021-11-04 00:00:00	512.193115	55.381645	92.404587	58.506424	148.682999
2021-11-05 00:00:00	509.709747	55.333168	91.710266	58.386696	149.240997
2021-11-08 00:00:00	500.461639	55.265301	91.690712	59.464233	149.351501
2021-11-09 00:00:00	505.329041	55.691906	90.712784	58.486469	149.248505
2021-11-10 00:00:00	502.150330	56.011864	90.908371	59.134987	146.626007
2021-11-11 00:00:00	508.775970	55.032604	92.130783	61.679180	146.748001
2021-11-12 00:00:00	513.732849	55.090775	91.944969	63.255581	149.645493
2021-11-15 00:00:00	516.434814	55.527077	91.426666	62.826561	149.388000
2021-11-16 00:00:00	523.219360	55.265301	90.839905	62.467381	149.076004
2021-11-17 00:00:00	522.792175	55.032604	90.683441	64.462822	149.061996
2021-11-18 00:00:00	525.851746	51.997860	93.235832	62.188019	150.709000
2021-11-19 00:00:00	530.242371	51.629421	91.103958	61.659225	149.952499
2021-11-22 00:00:00	536.063477	52.938335	90.937706	63.914074	147.078506
2021-11-23 00:00:00	541.636108	53.617035	91.573357	62.906376	146.757004
2021-11-24 00:00:00	546.076355	53.849731	90.605217	62.048336	146.717499
2021-11-26 00:00:00	542.500366	53.006207	89.500145	60.032936	142.806000

2021-11-29 00:00:00	551.192261	54.063034	89.989113	59.723644	146.113998
2021-11-30 00:00:00	535.795288	53.171036	87.094429	57.738174	142.451996
2021-12-01 00:00:00	526.318665	53.355247	86.820618	57.927746	141.617996
2021-12-02 00:00:00	522.017395	54.441166	88.003906	60.881001	143.776505
2021-12-03 00:00:00	525.414734	54.518730	88.864487	59.573986	142.520493
2021-12-06 00:00:00	529.656311	55.226513	90.605217	59.703690	143.796494
2021-12-07 00:00:00	538.417725	56.312431	90.879036	61.389839	148.036499
2021-12-08 00:00:00	526.586853	55.284691	91.045280	60.641548	148.720505
2021-12-09 00:00:00	520.845215	55.798557	95.162354	59.484188	148.106003
2021-12-10 00:00:00	555.106079	57.446823	96.678154	63.066013	148.675003
2021-12-13 00:00:00	553.516663	56.826298	96.717262	58.995308	146.704498
2021-12-14 00:00:00	541.715637	56.011864	96.599915	58.266972	144.970505
2021-12-15 00:00:00	561.721680	58.106125	98.330864	58.476494	147.368500
2021-12-16 00:00:00	548.957153	58.474564	98.986076	58.256992	144.838501
2021-12-17 00:00:00	543.970520	58.619995	98.145042	55.034351	142.802994
2021-12-20 00:00:00	544.914185	58.523041	98.105934	53.916904	142.401505
2021-12-21 00:00:00	541.804993	59.172649	98.565552	54.665195	144.220505
2021-12-22 00:00:00	546.016785	59.657433	98.673134	55.952255	146.949005
2021-12-23 00:00:00	546.712158	60.384613	99.074081	56.780365	147.142502
2021-12-29 00:00:00	563.996582	62.013477	101.411324	57.099636	146.504501
2021-12-30 00:00:00	560.162170	61.683830	101.391769	57.997585	146.002502
2021-12-31 00:00:00	563.927002	61.441433	100.883263	58.496449	144.679504
2022-01-04 00:00:00	560.480103	59.735897	101.988312	65.590248	144.416504
2022-01-05 00:00:00	546.265137	58.789871	103.474770	62.597084	137.653503
2022-01-06 00:00:00	546.145935	59.414051	100.325829	62.726788	137.550995
2022-01-07 00:00:00	532.616516	59.618862	101.890518	62.128155	137.004501
2022-01-10 00:00:00	515.352051	60.291805	102.741318	60.930889	138.574005
2022-01-11 00:00:00	518.560608	60.828209	103.699692	61.320000	140.017502
2022-01-12 00:00:00	522.305481	60.584389	103.445427	60.890980	141.647995
2022-01-13 00:00:00	513.444824	59.979713	103.015137	61.629295	139.130997
2022-01-14 00:00:00	499.647064	59.843178	103.875717	60.960819	139.786499
2022-01-18 00:00:00	484.826233	58.253468	102.203461	58.656082	136.290497
2022-01-19 00:00:00	486.902344	57.443985	101.166855	56.111893	135.651993
2022-01-20 00:00:00	479.611115	56.644260	100.665443	54.525513	133.506500
2022-01-21 00:00:00	478.409149	55.278866	99.849419	53.158630	130.091995
2022-01-24 00:00:00	485.650696	55.493427	101.766571	52.520092	130.371994
2022-01-25 00:00:00	474.147675	54.722958	101.363480	51.781776	126.735497
2022-01-26 00:00:00	480.256775	53.962238	103.093834	52.230751	129.240005
2022-01-27 00:00:00	479.313110	53.269791	104.991325	51.332802	129.121002
2022-01-28 00:00:00	489.157257	54.235317	107.429550	50.125561	133.289505
2022-01-31 00:00:00	501.772858	54.293831	104.716049	52.609886	135.698502
2022-02-01 00:00:00	505.031067	54.001247	104.480080	53.946835	137.878494
2022-02-02 00:00:00	518.550598	54.781475	107.065788	53.378132	148.036499
2022-02-03 00:00:00	519.087830	53.835453	106.888832	52.989021	142.650497
2022-02-04 00:00:00	517.098145	53.786690	106.662689	51.173168	143.016006
2022-02-07 00:00:00	513.238098	53.806190	107.567207	50.594486	138.938004
2022-02-08 00:00:00	518.471069	53.971992	108.963287	49.347332	139.212997
2022-02-09 00:00:00	526.111511	54.898510	103.025009	50.604465	141.453003

2022-02-10	00:00:00	515.814758	53.513611	103.546089	50.225330	138.602493
2022-02-11	00:00:00	507.050018	52.567589	102.484276	48.718773	134.130005
2022-02-14	00:00:00	503.956024	51.865387	101.265160	48.289749	135.300003
2022-02-15	00:00:00	511.278137	52.928444	101.235672	49.556854	136.425507
2022-02-16	00:00:00	509.766022	52.908936	102.189331	50.315125	137.487503
2022-02-17	00:00:00	512.362549	54.391365	100.576958	48.708794	132.308502
2022-02-18	00:00:00	510.034576	55.795761	100.409813	48.489292	130.467499
2022-02-22	00:00:00	499.598541	54.908260	100.203362	46.663464	129.402496
2022-02-23	00:00:00	492.714111	53.094238	100.517967	46.274353	127.584999
2022-02-24	00:00:00	502.981049	53.377068	99.072723	46.244419	132.673492
2022-02-25	00:00:00	514.829834	54.654686	102.543274	47.321960	134.519501
2022-02-28	00:00:00	516.580811	54.391365	101.904221	46.613579	134.891006
2022-03-01	00:00:00	520.241821	53.269791	100.331169	44.418587	134.167999
2022-03-02	00:00:00	525.285828	54.761967	102.671082	46.214485	134.751495
2022-03-03	00:00:00	530.309814	54.683945	102.779228	44.797722	134.307999
2022-03-04	00:00:00	522.798645	55.113064	103.418282	42.303417	132.121994
2022-03-07	00:00:00	525.803162	54.215813	102.798882	39.739273	126.464500
2022-03-08	00:00:00	520.669617	53.055229	100.635948	40.108429	127.278503
2022-03-09	00:00:00	524.937622	54.537647	101.855049	42.183689	133.865997
2022-03-10	00:00:00	529.981506	53.357567	102.326981	41.754669	132.682007
2022-03-11	00:00:00	524.708740	53.338055	101.727249	41.415443	130.475494
2022-03-14	00:00:00	523.246338	52.957699	102.730064	40.736996	126.740997
2022-03-15	00:00:00	539.532227	54.225563	105.178131	42.034031	129.660507
2022-03-16	00:00:00	540.596680	54.430378	105.305939	43.750111	133.690506
2022-03-17	00:00:00	549.948303	54.781475	106.731514	43.560547	134.600494
2022-03-18	00:00:00	558.464355	54.586418	105.492737	44.717903	136.801498
2022-03-21	00:00:00	552.674255	54.615677	105.581223	43.510662	136.478500
2022-03-22	00:00:00	556.544312	54.781475	105.423920	44.458496	140.277496
2022-03-23	00:00:00	551.172058	53.133251	104.411263	43.680271	138.503494
2022-03-24	00:00:00	555.240967	53.152756	106.230110	44.248974	141.311996
2022-03-25	00:00:00	552.853333	53.611137	106.731514	43.550571	141.521500
2022-03-28	00:00:00	562.304504	53.776936	106.220276	44.119270	141.949997
2022-03-29	00:00:00	567.050049	54.293831	102.916870	46.154621	143.250000
2022-03-30	00:00:00	573.506592	54.664444	101.805908	45.116993	142.644501
2022-03-31	00:00:00	572.889832	54.381607	99.505310	43.640366	139.649506
2022-04-01	00:00:00	572.611267	54.284081	99.387337	42.862141	140.699997
2022-04-04	00:00:00	572.173523	54.488892	98.315697	43.081638	143.642502
2022-04-05	00:00:00	572.362488	53.929169	97.784782	41.325645	141.063004
2022-04-06	00:00:00	581.783813	53.389095	100.340996	39.410023	137.175995
2022-04-07	00:00:00	604.924255	53.644405	101.864899	38.631802	136.464996
2022-04-08	00:00:00	596.955505	53.300716	104.814362	39.260365	134.010498
2022-04-11	00:00:00	581.664490	51.925980	102.690735	40.238132	129.796494
2022-04-12	00:00:00	578.371521	50.885098	102.877533	39.948792	128.374496
2022-04-13	00:00:00	588.051514	51.209148	103.211815	40.128384	130.285995
2022-04-14	00:00:00	587.355042	50.246822	101.933708	40.038589	127.252998
2022-04-18	00:00:00	579.127563	50.187912	101.678085	40.537449	127.960999
2022-04-19	00:00:00	591.244934	50.894920	102.110687	41.984146	130.531006
2022-04-20	00:00:00	600.427612	52.063450	104.843849	41.624966	128.245499

2022-04-21	00:00:00	588.698120	51.827782	103.944550	40.617264	124.937500
2022-04-22	00:00:00	568.761169	50.433399	100.485649	39.749249	119.613998
2022-04-25	00:00:00	565.289185	51.002934	100.574600	39.729294	123.250000
2022-04-26	00:00:00	550.913391	49.981701	100.238594	37.953350	119.505997
2022-04-27	00:00:00	551.231750	48.420387	99.665398	38.571938	115.020500
2022-04-28	00:00:00	560.020691	49.716572	99.665398	38.661732	119.411499
2022-04-29	00:00:00	529.847290	48.096336	95.000847	37.823643	114.966499
2022-05-02	00:00:00	527.087097	48.960464	95.366501	38.362415	117.156998
2022-05-03	00:00:00	526.220093	49.019375	94.852608	39.849018	118.129501
2022-05-04	00:00:00	542.512573	50.649433	99.388687	41.076218	122.574997
2022-05-05	00:00:00	515.498047	48.714970	96.582054	39.858997	116.746498
2022-05-06	00:00:00	501.587158	48.440025	99.507286	39.489841	115.660004
2022-05-09	00:00:00	497.073120	48.076698	97.698776	38.172844	113.084000
2022-05-10	00:00:00	499.693848	48.656055	97.007004	38.611847	114.584503
2022-05-11	00:00:00	487.357452	47.772293	96.838997	37.185104	113.960999
2022-05-12	00:00:00	484.467682	47.418789	97.095940	35.479000	113.161003
2022-05-13	00:00:00	495.518616	48.665874	96.334991	38.122959	116.515503
2022-05-16	00:00:00	492.788300	48.115978	97.392426	37.015488	114.792503
2022-05-17	00:00:00	488.742584	49.687107	98.212662	38.013210	116.701500
2022-05-18	00:00:00	427.887665	47.487522	92.915627	35.748383	112.401001
2022-05-19	00:00:00	421.440430	40.967319	92.045967	36.037720	110.745499
2022-05-20	00:00:00	414.963348	42.165306	93.814941	35.319363	109.313004
2022-05-24	00:00:00	436.168396	42.980331	95.317085	35.129795	105.926003
2022-05-25	00:00:00	438.559937	43.206184	96.008865	35.898041	105.839500
2022-05-26	00:00:00	463.352325	44.178326	96.651230	37.334759	108.295998
2022-05-27	00:00:00	469.101990	44.796955	96.898293	38.482140	112.799004
2022-05-31	00:00:00	464.577972	44.237240	95.613564	38.591892	114.039001
2022-06-01	00:00:00	455.380493	44.413990	95.406029	38.182823	114.137001
2022-06-02	00:00:00	485.892639	44.963890	96.087929	38.781456	117.746002
2022-06-03	00:00:00	474.572662	44.433632	93.785294	37.524330	114.564003
2022-06-06	00:00:00	470.805969	44.512188	94.595665	37.743828	117.010498
2022-06-07	00:00:00	470.118408	44.747856	94.793312	38.282597	117.229500
2022-06-08	00:00:00	466.341766	44.109581	92.777267	37.604145	117.237999
2022-06-09	00:00:00	470.387451	43.461491	91.650665	36.566517	114.917999
2022-06-10	00:00:00	461.678223	42.705387	92.075615	34.930248	111.427498
2022-06-13	00:00:00	450.657196	42.459896	89.822395	32.206467	106.876503
2022-06-14	00:00:00	453.198181	42.135845	89.575333	33.124374	107.194000
2022-06-15	00:00:00	457.174164	43.009789	90.375816	34.102142	110.390503
2022-06-16	00:00:00	450.168915	42.538452	88.794609	31.348429	106.636002
2022-06-17	00:00:00	445.116760	42.607189	87.618599	31.807379	107.865501
2022-06-21	00:00:00	461.478943	43.343655	90.010162	32.565647	112.014999
2022-06-22	00:00:00	458.340027	42.783939	90.217697	32.755219	112.033997
2022-06-23	00:00:00	473.327057	42.155491	91.285019	32.914852	112.684502
2022-06-24	00:00:00	482.664032	43.304379	93.409760	34.740685	118.538002
2022-06-27	00:00:00	480.053284	42.980331	93.429520	34.551117	116.622498
2022-06-28	00:00:00	466.959564	42.283146	92.105263	33.912575	112.571503
2022-06-29	00:00:00	468.185211	42.106388	92.253502	33.373806	112.256500
2022-06-30	00:00:00	477.591980	41.870720	91.571609	31.687654	109.372498

2022-07-05	00:00:00	486.540375	41.573833	91.443130	32.296265	113.887001
2022-07-06	00:00:00	490.914917	42.297115	92.095383	31.198771	115.213501
2022-07-07	00:00:00	493.206818	42.822239	92.629036	32.585602	119.306000
2022-07-08	00:00:00	499.773621	42.990673	93.073753	32.236401	120.168503
2022-07-11	00:00:00	497.142883	42.851963	93.597519	30.799683	116.522499
2022-07-12	00:00:00	488.842224	42.465553	93.864357	31.458178	114.849503
2022-07-13	00:00:00	490.486420	42.307026	92.352318	31.647743	112.186996
2022-07-14	00:00:00	510.136963	41.940430	91.739609	31.518042	111.440002
2022-07-15	00:00:00	521.108215	42.673618	94.249771	32.795124	112.766998
2022-07-18	00:00:00	514.481567	42.207943	93.182465	32.545692	109.910004
2022-07-19	00:00:00	518.397766	43.624783	95.653091	34.321640	114.620003
2022-07-20	00:00:00	522.353821	43.723866	94.032356	34.680817	114.699997
2022-07-21	00:00:00	527.595337	44.169724	92.630821	35.049976	115.040001
2022-07-22	00:00:00	527.854309	44.050823	93.495598	34.591022	108.360001
2022-07-25	00:00:00	527.276428	43.931931	93.923012	34.441368	108.209999
2022-07-26	00:00:00	510.126984	43.426624	94.738091	33.264053	105.440002
2022-07-27	00:00:00	520.470459	44.229168	95.294739	34.601002	113.599998
2022-07-28	00:00:00	535.213806	45.200150	94.956772	35.658588	114.589996
2022-07-29	00:00:00	540.324585	44.952450	95.105873	36.177402	116.639999
2022-08-02	00:00:00	542.480713	44.506592	94.797737	36.047699	115.900002
2022-08-03	00:00:00	546.024292	45.289322	100.771667	37.225014	118.779999
2022-08-04	00:00:00	542.301086	44.962360	101.258736	36.147472	118.870003
2022-08-05	00:00:00	539.695740	44.595764	101.646393	35.977859	118.220001
2022-08-08	00:00:00	540.923523	44.605671	101.387955	37.474442	118.139999
2022-08-09	00:00:00	534.854492	44.506592	103.067818	36.536583	117.500000
2022-08-10	00:00:00	538.847290	45.596470	103.425652	37.863556	120.650002
2022-08-11	00:00:00	531.241028	45.477573	103.624451	38.372391	119.820000
2022-08-12	00:00:00	536.242004	46.181038	105.751610	39.390068	122.650002
2022-08-15	00:00:00	544.766602	46.161224	105.632324	39.310253	122.879997
2022-08-16	00:00:00	552.023499	46.339565	105.791374	38.901184	122.510002
2022-08-17	00:00:00	555.317566	46.230579	104.290428	38.312531	120.320000
2022-08-18	00:00:00	559.949219	48.915638	103.018112	38.631802	120.860001
2022-08-19	00:00:00	553.530762	48.251804	103.425652	39.609570	118.120003
2022-08-22	00:00:00	544.487061	47.270916	101.725906	38.462185	115.070000
2022-08-23	00:00:00	541.093201	46.973675	100.523170	38.472164	114.769997
2022-08-24	00:00:00	542.241089	46.636806	100.672272	39.160591	114.699997
2022-08-25	00:00:00	549.777527	46.834965	101.537056	40.297993	117.699997
2022-08-26	00:00:00	530.861694	45.467667	99.459595	39.140636	111.300003
2022-08-29	00:00:00	530.103027	45.289322	99.727974	39.419998	110.339996
2022-08-30	00:00:00	523.195557	44.823650	98.207161	39.130001	109.910004
2022-08-31	00:00:00	521.159180	44.308434	97.561058	38.209999	109.150002
2022-09-01	00:00:00	528.216431	44.873188	99.330376	38.560001	110.550003
2022-09-02	00:00:00	518.174561	44.179630	98.843315	38.470001	108.680000
2022-09-06	00:00:00	517.964966	44.060734	98.137581	38.709999	107.480003
2022-09-07	00:00:00	528.685608	44.605671	100.075874	40.110001	110.480003
2022-09-08	00:00:00	528.166565	44.952450	101.646393	40.500000	109.419998
2022-09-09	00:00:00	535.613098	45.348770	101.537056	41.290001	111.779999
2022-09-12	00:00:00	538.547852	45.972973	102.421715	42.049999	111.870003

2022-09-13	00:00:00	509.380432	43.704048	99.847252	40.529999	105.309998
2022-09-14	00:00:00	507.084595	43.555428	100.443657	40.619999	105.870003
2022-09-15	00:00:00	502.592712	42.891594	101.696091	40.660000	103.900002
2022-09-16	00:00:00	503.231567	42.901501	101.447594	39.970001	103.629997
2022-09-19	00:00:00	505.657196	42.901501	101.497292	41.389999	103.849998
2022-09-20	00:00:00	498.619873	42.188129	100.731911	39.060001	101.830002
2022-09-21	00:00:00	492.181519	41.207241	99.171333	37.680000	100.010002
2022-09-22	00:00:00	486.292145	40.771290	99.230972	37.380001	100.570000
2022-09-23	00:00:00	465.559570	40.285797	97.759850	35.480000	99.169998
2022-09-26	00:00:00	479.434509	40.206535	97.153511	35.040001	98.809998
2022-09-27	00:00:00	477.438110	40.147087	96.626694	34.709999	98.089996
2022-09-28	00:00:00	487.410126	40.959541	97.570999	35.250000	100.739998
2022-09-29	00:00:00	478.116913	40.196625	96.398079	33.259998	98.089996
2022-09-30	00:00:00	471.418976	39.631874	94.797737	32.090000	96.150002
2022-10-03	00:00:00	476.869171	40.910000	97.173401	32.869999	99.300003
2022-10-04	00:00:00	485.254028	41.820000	99.916832	35.799999	102.410004
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2022-10-06	00:00:00	481.620544	41.520000	97.988480	34.630001	102.239998
2022-10-07	00:00:00	467.306396	40.270000	87.720459	33.619999	99.570000
2022-10-11	00:00:00	471.169434	39.580002	87.968956	32.090000	98.050003
2022-10-12	00:00:00	465.539612	39.270000	87.312920	32.200001	98.300003
2022-10-13	00:00:00	467.146698	40.610001	89.559357	32.759998	99.709999
2022-10-14	00:00:00	453.830719	40.200001	88.764160	32.889999	97.180000
2022-10-17	00:00:00	463.333588	41.299999	90.344620	33.570000	100.779999
2022-10-18	00:00:00	472.417175	41.790001	91.388321	34.250000	101.389999
2022-10-19	00:00:00	470.580505	41.880001	91.110001	33.630001	100.290001
2022-10-20	00:00:00	463.782776	41.709999	90.989998	33.439999	100.529999
2022-10-21	00:00:00	477.318329	42.799999	92.720001	35.000000	101.480003
2022-10-24	00:00:00	496.074463	43.540001	94.800003	35.720001	102.970001
2022-10-25	00:00:00	498.160706	44.360001	92.220001	37.009998	104.930000
2022-10-26	00:00:00	498.550018	44.380001	92.730003	37.860001	94.820000
2022-10-27	00:00:00	496.540009	44.419998	92.699997	38.160000	92.599998
2022-10-28	00:00:00	510.869995	45.639999	94.190002	38.849998	96.580002
2022-10-31	00:00:00	501.500000	45.430000	94.699997	39.250000	94.660004
2022-11-01	00:00:00	499.959991	45.459999	94.620003	39.349998	90.500000
2022-11-02	00:00:00	483.510010	44.570000	96.800003	38.520000	87.070000
2022-11-03	00:00:00	486.290009	43.849998	97.800003	38.509998	83.489998
2022-11-04	00:00:00	486.410004	44.520000	99.559998	39.000000	86.699997
2022-11-07	00:00:00	488.549988	44.549999	101.180000	39.389999	88.650002
2022-11-08	00:00:00	492.760010	44.610001	101.650002	39.049999	88.910004
2022-11-09	00:00:00	489.970001	43.910000	99.559998	38.060001	87.400002
2022-11-10	00:00:00	513.130005	45.660000	99.910004	39.740002	94.169998
2022-11-11	00:00:00	515.469971	44.790001	97.550003	41.119999	96.730003
2022-11-14	00:00:00	509.679993	44.740002	97.169998	39.930000	96.029999
2022-11-15	00:00:00	526.469971	44.900002	97.730003	40.240002	98.720001
2022-11-16	00:00:00	524.109985	44.389999	96.099998	38.470001	98.989998
2022-11-17	00:00:00	521.320007	46.590000	94.930000	38.639999	98.500000
2022-11-18	00:00:00	523.669983	47.790001	97.349998	39.770000	97.800003

2022-11-21 00:00:00	523.369995	47.619999	97.889999	39.520000	95.830002
2022-11-22 00:00:00	531.950012	48.380001	99.510002	39.970001	97.330002
2022-11-23 00:00:00	534.489990	48.570000	100.059998	40.110001	98.820000

Date	JPM	KMI	KO	LLY	LMT \
2021-03-16 00:00:00	146.212967	14.289574	48.974052	186.289169	332.890930
2021-03-17 00:00:00	147.717865	14.558847	48.993179	182.219894	336.621368
2021-03-18 00:00:00	150.156158	14.145960	48.352551	179.487518	343.746582
2021-03-19 00:00:00	147.765488	14.289574	48.582031	179.838806	340.505249
2021-03-22 00:00:00	143.793716	14.163912	48.763699	181.351395	342.989014
2021-03-23 00:00:00	142.355469	14.074152	49.136600	179.243561	339.105103
2021-03-24 00:00:00	143.460342	14.531922	49.260895	175.818344	341.512177
2021-03-25 00:00:00	145.298599	14.684512	49.738976	178.667801	346.402985
2021-03-26 00:00:00	147.717865	15.079448	50.714249	180.834183	349.749756
2021-03-29 00:00:00	145.422424	15.034571	51.488731	181.839294	357.498383
2021-03-30 00:00:00	147.136871	14.917883	50.819427	181.019623	355.340668
2021-03-31 00:00:00	144.993835	14.944811	50.398716	182.307739	354.343353
2021-04-01 00:00:00	146.403458	15.115353	50.207485	180.765900	355.800964
2021-04-05 00:00:00	147.179489	14.953788	50.494335	180.424332	363.213867
2021-04-06 00:00:00	146.144791	14.989692	50.857670	178.384827	363.424866
2021-04-07 00:00:00	148.434586	15.196136	50.943726	177.916428	364.594818
2021-04-08 00:00:00	148.616623	15.106377	50.790737	178.199417	370.185699
2021-04-09 00:00:00	149.727982	14.837102	50.848106	180.033997	370.387115
2021-04-12 00:00:00	149.411819	14.810174	51.010651	177.428482	371.940643
2021-04-13 00:00:00	147.629791	14.801198	50.762051	178.121338	371.230957
2021-04-14 00:00:00	144.870560	14.944811	50.752495	178.579987	372.726990
2021-04-15 00:00:00	145.790283	15.007641	50.991535	181.429459	374.606628
2021-04-16 00:00:00	146.872925	14.846076	51.326187	184.679016	375.738190
2021-04-19 00:00:00	146.250168	14.917883	51.632153	185.059616	375.661499
2021-04-20 00:00:00	143.011887	14.855052	51.794697	186.006180	371.441925
2021-04-21 00:00:00	144.228638	14.980714	52.215405	186.337982	371.355621
2021-04-22 00:00:00	141.191544	14.684512	52.052856	182.532181	364.498932
2021-04-23 00:00:00	143.893295	15.061499	52.081547	184.161835	361.813782
2021-04-26 00:00:00	144.247803	15.178184	51.307056	182.698044	356.721619
2021-04-27 00:00:00	144.908859	15.258968	51.230564	177.809067	357.910767
2021-04-28 00:00:00	145.847778	15.653902	51.240131	176.189163	357.642242
2021-04-29 00:00:00	148.683670	15.763309	51.880749	177.799316	364.748291
2021-04-30 00:00:00	147.361542	15.544500	51.613029	178.355545	364.949646
2021-05-03 00:00:00	146.930405	15.735959	52.091103	181.429459	369.504791
2021-05-04 00:00:00	148.961533	15.653902	51.766010	183.654388	371.585846
2021-05-05 00:00:00	150.915985	15.963883	51.632153	188.153030	370.521301
2021-05-06 00:00:00	153.953094	16.091518	52.148468	189.206955	371.451538
2021-05-07 00:00:00	154.480057	16.264742	52.119785	190.700012	374.328491
2021-05-10 00:00:00	154.460876	16.638538	52.502247	190.055939	377.013641
2021-05-11 00:00:00	151.893234	16.383265	51.938122	190.046173	371.911896
2021-05-12 00:00:00	150.848938	16.501789	51.670399	188.533630	365.007233
2021-05-13 00:00:00	154.729126	16.428852	52.119785	191.072220	371.863892

2021-05-14 00:00:00	157.133896	16.738829	52.330143	192.317047	374.750488
2021-05-17 00:00:00	157.766251	17.139975	52.244087	191.650543	375.076477
2021-05-18 00:00:00	155.543503	17.057924	51.957245	190.768402	371.336487
2021-05-19 00:00:00	154.355484	16.839113	51.794697	192.611084	369.725372
2021-05-20 00:00:00	154.087219	17.048807	52.253651	195.571167	372.391357
2021-05-21 00:00:00	155.840500	17.067038	52.224960	195.914230	371.336487
2021-05-25 00:00:00	155.064468	16.902937	52.387512	195.267319	370.022736
2021-05-26 00:00:00	155.045303	16.729713	52.616985	197.002213	368.373230
2021-05-27 00:00:00	157.459641	16.647659	53.056816	195.247726	371.499512
2021-05-28 00:00:00	157.354263	16.720594	52.865582	195.777008	368.998993
2021-06-01 00:00:00	159.088379	16.875584	52.856022	194.483185	368.728638
2021-06-02 00:00:00	159.097946	17.112625	53.066376	195.179108	371.789154
2021-06-03 00:00:00	159.203354	17.112625	53.200233	198.678268	373.971100
2021-06-04 00:00:00	159.462036	17.121740	53.773933	198.011780	380.487976
2021-06-07 00:00:00	158.714737	17.112625	53.582699	218.105042	377.987396
2021-06-08 00:00:00	158.082397	17.139975	53.209801	216.321152	375.110321
2021-06-09 00:00:00	156.108765	17.167328	53.047256	221.515991	373.440094
2021-06-10 00:00:00	153.675247	17.322317	53.458401	228.906387	374.328308
2021-06-11 00:00:00	153.569839	17.449953	53.697437	219.643875	374.328308
2021-06-14 00:00:00	150.963898	17.176445	53.514400	221.613998	375.670288
2021-06-15 00:00:00	148.674072	17.349669	53.379528	219.085190	376.336426
2021-06-16 00:00:00	149.718399	17.185562	52.666649	216.379944	370.350616
2021-06-17 00:00:00	145.397476	16.693243	52.936390	217.801178	369.674774
2021-06-18 00:00:00	141.718475	16.100636	51.799625	214.213806	366.092926
2021-06-21 00:00:00	144.123245	16.675009	52.368008	218.252075	369.288574
2021-06-22 00:00:00	143.912476	16.592957	52.560680	217.046478	369.269318
2021-06-23 00:00:00	144.784302	16.492668	52.136799	212.792572	364.297150
2021-06-24 00:00:00	146.116043	16.629425	52.396904	228.347702	364.683350
2021-06-25 00:00:00	147.591476	16.675009	52.329475	225.652252	368.815491
2021-06-28 00:00:00	147.859741	16.383265	52.271671	223.691956	366.942535
2021-06-29 00:00:00	147.677704	16.273861	51.886333	224.819122	360.522247
2021-06-30 00:00:00	149.019012	16.620306	52.127163	224.966141	365.281952
2021-07-02 00:00:00	150.349899	16.930286	52.194607	229.318085	368.313477
2021-07-06 00:00:00	147.825302	16.811764	51.905598	230.749069	365.590912
2021-07-07 00:00:00	147.998718	16.684124	52.329475	231.141144	370.234772
2021-07-08 00:00:00	145.445206	16.565605	52.146435	232.415344	366.797760
2021-07-09 00:00:00	150.099380	17.021458	52.464344	230.327621	369.877533
2021-07-12 00:00:00	152.248199	16.884699	52.483608	231.327347	365.977081
2021-07-13 00:00:00	149.983734	16.665892	53.003826	230.631470	364.789551
2021-07-14 00:00:00	149.473022	16.346798	54.198383	231.660629	363.804810
2021-07-15 00:00:00	149.800659	16.282978	54.371784	226.877457	365.185425
2021-07-16 00:00:00	146.379883	16.082401	54.333252	227.847809	364.113739
2021-07-19 00:00:00	141.619736	15.663019	53.687805	229.494476	359.170593
2021-07-20 00:00:00	144.259979	15.927414	53.784142	230.357025	366.855682
2021-07-21 00:00:00	147.295319	16.273861	54.477757	232.581970	367.734222
2021-07-22 00:00:00	145.435547	15.927414	54.400684	233.758179	366.807373
2021-07-23 00:00:00	145.156128	15.836246	54.920898	239.305862	367.618347
2021-07-26 00:00:00	146.129349	16.255627	54.969070	238.384537	355.337677

2021-07-27 00:00:00	145.936630	16.182690	55.161739	238.747192	361.787018
2021-07-28 00:00:00	146.177536	16.200924	54.660801	241.619034	359.933289
2021-07-29 00:00:00	147.430206	16.319447	54.959435	240.462479	359.730530
2021-07-30 00:00:00	146.254608	16.088030	54.940170	238.668777	358.832672
2021-08-03 00:00:00	147.324203	16.180599	54.834194	250.910980	356.689331
2021-08-04 00:00:00	145.734283	15.865868	54.044247	257.262421	349.149109
2021-08-05 00:00:00	147.574738	15.754790	54.429592	258.948273	348.318817
2021-08-06 00:00:00	151.766373	15.847358	54.564457	258.213196	349.544922
2021-08-09 00:00:00	151.602600	15.773308	54.574097	261.859314	348.569855
2021-08-10 00:00:00	153.462311	15.912154	54.718590	264.103912	349.728363
2021-08-11 00:00:00	155.293137	15.958437	54.651161	258.860016	350.751740
2021-08-12 00:00:00	155.900192	16.013977	54.757126	259.076385	347.324371
2021-08-13 00:00:00	154.156097	15.930664	55.132839	259.804016	345.615540
2021-08-16 00:00:00	153.144318	15.736279	55.373680	265.438477	347.807129
2021-08-17 00:00:00	151.294250	15.504862	55.181004	268.162262	349.110504
2021-08-18 00:00:00	149.916290	15.079058	54.429592	264.042145	344.283203
2021-08-19 00:00:00	148.663605	14.708792	54.776394	265.890808	341.801910
2021-08-20 00:00:00	149.087601	14.755074	54.564457	266.392303	344.833496
2021-08-23 00:00:00	150.995529	15.069801	54.371784	263.353851	345.007263
2021-08-24 00:00:00	151.930191	15.254933	53.957542	258.388092	346.600311
2021-08-25 00:00:00	155.061874	15.245676	54.015343	259.469727	346.358917
2021-08-26 00:00:00	155.861679	14.940207	53.504768	256.962250	349.129761
2021-08-27 00:00:00	157.114365	15.356756	53.610737	255.418396	349.487000
2021-08-30 00:00:00	154.599380	15.125340	54.121319	257.935730	349.544922
2021-08-31 00:00:00	154.127197	15.060544	54.246552	253.982788	349.885284
2021-09-01 00:00:00	153.905563	14.958720	54.612625	253.107620	346.831848
2021-09-02 00:00:00	154.618637	15.199392	54.689690	255.241409	348.183502
2021-09-03 00:00:00	153.683945	15.125340	54.651161	255.202103	346.190002
2021-09-07 00:00:00	153.414139	14.958720	53.629997	250.550964	339.577393
2021-09-08 00:00:00	152.729996	14.893924	54.352520	250.590302	341.775116
2021-09-09 00:00:00	153.394882	14.792101	53.813042	235.997772	339.314819
2021-09-10 00:00:00	151.631470	14.782845	53.572205	235.506104	336.348877
2021-09-13 00:00:00	154.040497	14.940207	54.015343	233.991806	336.767029
2021-09-14 00:00:00	151.352051	14.819871	54.054169	229.203003	334.851288
2021-09-15 00:00:00	152.402374	15.162366	54.238590	229.832321	335.561188
2021-09-16 00:00:00	152.334915	14.958720	53.724159	227.187195	332.089600
2021-09-17 00:00:00	151.939819	14.773588	52.840889	226.262878	331.583923
2021-09-20 00:00:00	147.391678	14.514401	52.472050	227.777176	329.133331
2021-09-21 00:00:00	147.410950	14.606968	52.462345	226.331696	326.789734
2021-09-22 00:00:00	150.234268	14.930951	52.539989	224.492905	332.313263
2021-09-23 00:00:00	155.312424	15.264190	52.452641	228.308167	334.715179
2021-09-24 00:00:00	157.104721	15.301217	52.307045	227.816513	339.888580
2021-09-27 00:00:00	160.901276	15.717764	52.035267	222.624557	343.622742
2021-09-28 00:00:00	160.034058	15.634455	51.093761	217.904602	342.446075
2021-09-29 00:00:00	159.908768	15.662224	51.404358	226.518509	340.637360
2021-09-30 00:00:00	157.731049	15.486347	50.928757	227.197037	335.590393
2021-10-01 00:00:00	161.045822	15.652968	51.462601	225.761368	338.215942
2021-10-04 00:00:00	160.872375	15.680739	51.433479	221.100418	336.455841

2021-10-05 00:00:00	163.499466	15.662224	51.520840	227.079010	338.167358
2021-10-06 00:00:00	163.848450	15.495605	52.132332	224.050400	340.345612
2021-10-07 00:00:00	164.885681	15.680739	52.297340	229.291473	342.086273
2021-10-08 00:00:00	165.011719	16.171339	52.530285	230.038818	344.002014
2021-10-12 00:00:00	160.300430	16.606403	52.637058	228.898163	348.251587
2021-10-13 00:00:00	156.073837	16.634171	52.646763	232.497116	351.791290
2021-10-14 00:00:00	158.468262	17.013693	53.005894	232.742966	352.092773
2021-10-15 00:00:00	161.512177	17.087746	52.879711	233.913132	355.544922
2021-10-18 00:00:00	161.454025	17.097002	52.355576	234.994781	354.942017
2021-10-19 00:00:00	163.412216	17.078491	52.559406	238.269226	360.844757
2021-10-20 00:00:00	165.612747	17.263624	53.025307	239.655746	360.903107
2021-10-21 00:00:00	164.313736	16.226881	52.753529	237.148254	362.857727
2021-10-22 00:00:00	166.523987	16.356474	52.850594	239.685211	364.277496
2021-10-25 00:00:00	165.709686	16.523090	52.637058	240.963547	365.959778
2021-10-26 00:00:00	166.155594	16.310190	52.870007	244.297028	322.763824
2021-10-27 00:00:00	162.694855	16.013977	53.889164	245.998169	321.820587
2021-10-28 00:00:00	165.147446	16.060261	54.393887	249.125153	322.258179
2021-10-29 00:00:00	164.691818	15.749962	54.714199	250.511627	323.162567
2021-11-01 00:00:00	164.604568	16.032051	54.520069	245.152512	321.810822
2021-11-02 00:00:00	165.254089	15.947424	54.452126	252.566772	317.318146
2021-11-03 00:00:00	165.312225	15.843993	54.636551	261.819885	322.219238
2021-11-04 00:00:00	163.140778	15.749962	54.937439	266.480804	326.254944
2021-11-05 00:00:00	162.908112	15.938021	55.170391	260.580902	330.523956
2021-11-08 00:00:00	163.887207	15.834588	54.675373	256.185394	332.361847
2021-11-09 00:00:00	162.646378	15.815784	54.830673	257.650543	328.851318
2021-11-10 00:00:00	162.491272	15.702949	55.053917	260.236725	328.326233
2021-11-11 00:00:00	162.481583	15.787574	55.073330	258.250397	326.634155
2021-11-12 00:00:00	161.754532	15.684141	54.947147	256.149078	329.716827
2021-11-15 00:00:00	161.463699	15.853395	54.956852	254.945572	331.525574
2021-11-16 00:00:00	160.300430	15.665336	54.568604	254.245132	330.990723
2021-11-17 00:00:00	159.437668	15.524291	54.267708	257.658447	332.566071
2021-11-18 00:00:00	158.061111	15.308023	53.782394	257.806427	332.653595
2021-11-19 00:00:00	155.996277	15.195187	53.510620	257.184998	332.031250
2021-11-22 00:00:00	159.321335	15.148172	53.840633	256.928436	335.473694
2021-11-23 00:00:00	163.131073	15.355038	54.238590	258.427948	335.668152
2021-11-24 00:00:00	161.851456	15.533695	53.801811	258.467407	334.112244
2021-11-26 00:00:00	156.975357	15.289218	52.151745	256.859375	333.275940
2021-11-29 00:00:00	156.296783	15.054143	52.976776	251.394104	331.827026
2021-11-30 00:00:00	153.970215	14.536980	51.304134	244.695633	326.816711
2021-12-01 00:00:00	153.058975	14.358324	51.157410	245.770966	322.012329
2021-12-02 00:00:00	156.277405	14.790859	51.910591	244.537796	324.081116
2021-12-03 00:00:00	153.446747	14.659220	52.370323	242.268814	327.297150
2021-12-06 00:00:00	155.259521	14.837874	53.710388	243.008698	333.327148
2021-12-07 00:00:00	157.595795	15.261007	54.003834	241.805145	332.552582
2021-12-08 00:00:00	155.792709	15.270411	53.798428	241.025818	334.425293
2021-12-09 00:00:00	155.550354	15.054143	53.661480	239.624924	336.896118
2021-12-10 00:00:00	154.929947	15.195187	55.050461	240.848236	338.151154
2021-12-13 00:00:00	153.088074	14.978919	56.498127	245.179047	338.808105

2021-12-14 00:00:00	154.261047	14.875486	56.537254	246.017593	338.896362
2021-12-15 00:00:00	153.107437	14.922501	56.791576	271.568359	337.700134
2021-12-16 00:00:00	155.501877	14.913098	57.368683	275.277679	338.111938
2021-12-17 00:00:00	151.963562	14.668621	56.468781	263.814362	337.425629
2021-12-20 00:00:00	149.229843	14.330114	56.282932	259.927490	330.836700
2021-12-21 00:00:00	151.314056	14.725039	56.507908	261.308624	334.121338
2021-12-22 00:00:00	151.905396	14.640411	56.908955	262.906738	336.445129
2021-12-23 00:00:00	152.448273	14.706233	56.948082	269.417755	340.249390
2021-12-29 00:00:00	153.708481	14.884890	57.662128	274.666077	347.357971
2021-12-30 00:00:00	153.630936	14.856682	57.495838	273.511780	346.681396
2021-12-31 00:00:00	153.504913	14.913098	57.916451	272.495667	348.475739
2022-01-04 00:00:00	162.694855	15.590110	58.972855	263.212555	354.927307
2022-01-05 00:00:00	159.720459	15.674739	59.461937	257.135590	351.152466
2022-01-06 00:00:00	161.417328	16.003841	59.148922	255.833435	351.015198
2022-01-07 00:00:00	163.016678	16.238916	59.011982	256.001129	353.113434
2022-01-10 00:00:00	163.172699	16.389362	59.109795	256.602905	356.162750
2022-01-11 00:00:00	163.338486	16.558619	59.129360	258.783112	357.035400
2022-01-12 00:00:00	164.264938	16.596226	59.217396	252.469391	354.250793
2022-01-13 00:00:00	164.060135	16.521006	59.569530	246.303650	358.055115
2022-01-14 00:00:00	153.976440	16.821901	60.048820	240.828491	365.349945
2022-01-18 00:00:00	147.520538	16.643244	59.569530	243.738739	369.193481
2022-01-19 00:00:00	145.238525	16.389362	59.667343	241.745956	369.968048
2022-01-20 00:00:00	144.000015	16.389362	59.422810	239.851868	367.810974
2022-01-21 00:00:00	141.483963	16.332947	59.129360	239.782791	363.957672
2022-01-24 00:00:00	141.357178	16.285931	58.650066	237.178391	366.046082
2022-01-25 00:00:00	142.898010	16.455185	58.513123	236.231323	379.616058
2022-01-26 00:00:00	144.253571	16.473991	58.297928	234.652908	383.606628
2022-01-27 00:00:00	141.708252	16.436380	58.346836	233.528275	381.488800
2022-01-28 00:00:00	142.976044	16.426828	59.510841	241.795303	385.479401
2022-01-31 00:00:00	144.916718	16.579636	59.677124	242.081360	381.537842
2022-02-01 00:00:00	147.403488	16.627388	59.236958	244.932404	379.459198
2022-02-02 00:00:00	146.223511	16.627388	59.843414	247.448029	379.782745
2022-02-03 00:00:00	145.014221	16.493681	60.264019	241.509201	382.096710
2022-02-04 00:00:00	148.778549	16.570086	59.628220	239.003448	381.733917
2022-02-07 00:00:00	149.275940	16.675140	60.254234	240.266190	384.685181
2022-02-08 00:00:00	152.084518	16.512783	60.645500	236.675262	388.312988
2022-02-09 00:00:00	152.718430	16.589188	59.706467	239.989975	386.842255
2022-02-10 00:00:00	152.084518	16.426828	60.039040	236.408890	377.909973
2022-02-11 00:00:00	150.104843	16.751547	58.972855	232.561493	388.460083
2022-02-14 00:00:00	148.710297	16.417278	59.354332	232.492142	379.419983
2022-02-15 00:00:00	150.885025	16.245371	59.579308	241.556442	374.762634
2022-02-16 00:00:00	151.158066	16.359974	59.569530	243.280151	379.351318
2022-02-17 00:00:00	147.676559	16.006607	60.762875	238.713333	381.184845
2022-02-18 00:00:00	148.368958	15.853799	61.173698	238.059509	378.919891
2022-02-22 00:00:00	148.105652	15.796495	60.919380	236.890564	378.664978
2022-02-23 00:00:00	145.004486	16.016159	60.244453	236.078247	381.312286
2022-02-24 00:00:00	140.967102	15.920652	59.188046	240.803574	387.989441
2022-02-25 00:00:00	144.302322	16.302671	61.476925	248.500824	401.500580

2022-02-28 00:00:00	138.285263	16.617836	60.880253	247.609238	428.264648
2022-03-01 00:00:00	133.067871	16.799297	60.616154	247.163452	450.783600
2022-03-02 00:00:00	135.827728	17.324574	61.066101	251.789719	444.257935
2022-03-03 00:00:00	134.862244	17.563334	61.105228	256.217865	442.105774
2022-03-04 00:00:00	131.068680	17.993107	61.203045	260.408234	452.303925
2022-03-07 00:00:00	126.007332	17.878498	59.745594	259.189758	460.201874
2022-03-08 00:00:00	125.119881	17.830750	57.378468	257.495789	443.260803
2022-03-09 00:00:00	130.132477	17.506033	57.671913	260.329010	442.994293
2022-03-10 00:00:00	128.591644	17.716143	56.615509	263.528717	438.689911
2022-03-11 00:00:00	125.695259	17.286373	56.654629	263.806091	433.437805
2022-03-14 00:00:00	126.943527	16.751547	57.699413	266.480835	438.778778
2022-03-15 00:00:00	129.196259	16.541433	58.763905	272.880310	442.944916
2022-03-16 00:00:00	134.969528	16.474579	58.606197	273.851166	415.963654
2022-03-17 00:00:00	136.676163	16.770647	59.227154	282.836212	423.121124
2022-03-18 00:00:00	136.627396	16.579636	59.237011	284.946289	420.741882
2022-03-21 00:00:00	136.188538	17.257721	59.710117	286.927551	434.385559
2022-03-22 00:00:00	139.084930	17.124012	59.926960	282.350769	434.968018
2022-03-23 00:00:00	136.315323	17.305473	59.532703	281.528564	439.568573
2022-03-24 00:00:00	137.202759	17.477379	60.104374	284.995789	443.991425
2022-03-25 00:00:00	138.402283	18.212769	60.646477	286.313324	447.871246
2022-03-28 00:00:00	137.378311	17.907152	61.030876	288.928650	439.302032
2022-03-29 00:00:00	137.680603	18.040859	61.267429	285.689240	431.571930
2022-03-30 00:00:00	137.056473	18.231869	61.316711	287.175201	440.259613
2022-03-31 00:00:00	132.941101	18.059959	61.109730	283.688171	435.767670
2022-04-01 00:00:00	131.956131	18.356026	61.967236	289.929169	440.289246
2022-04-04 00:00:00	132.541260	18.432428	61.641975	288.690887	438.344391
2022-04-05 00:00:00	130.998825	18.069510	61.572979	289.750824	441.533142
2022-04-06 00:00:00	129.181320	18.155464	62.193932	302.975830	448.779510
2022-04-07 00:00:00	128.788315	18.403776	62.529049	305.541565	459.570038
2022-04-08 00:00:00	131.146194	18.604338	62.913452	308.771027	455.630951
2022-04-11 00:00:00	130.664795	18.394226	62.893742	306.066589	458.326111
2022-04-12 00:00:00	129.230423	18.279621	63.632969	305.194855	461.584015
2022-04-13 00:00:00	125.064880	18.422878	63.800526	299.835541	463.203094
2022-04-14 00:00:00	123.905594	18.499283	64.086357	299.033081	461.692627
2022-04-18 00:00:00	126.204506	18.671190	63.514694	296.021606	461.475403
2022-04-19 00:00:00	128.817795	18.718943	64.135643	294.228546	454.031616
2022-04-20 00:00:00	129.269714	18.881304	65.012871	290.176849	448.078552
2022-04-21 00:00:00	128.267624	18.900404	65.259270	286.897797	433.931427
2022-04-22 00:00:00	124.583473	18.289173	64.313057	276.119751	440.101685
2022-04-25 00:00:00	124.544182	17.773447	64.993156	282.529144	437.238678
2022-04-26 00:00:00	120.860016	17.611090	64.115936	280.181305	440.397827
2022-04-27 00:00:00	119.288109	17.572886	64.618607	282.420166	439.302032
2022-04-28 00:00:00	121.174393	17.964453	65.239563	294.486053	436.073730
2022-04-29 00:00:00	117.264282	17.594154	63.682247	289.394226	426.606079
2022-05-02 00:00:00	118.335136	17.623236	62.529049	286.848297	425.312805
2022-05-03 00:00:00	120.869850	18.107924	62.174221	285.372253	429.222260
2022-05-04 00:00:00	124.868385	18.689548	64.096222	292.138275	440.052307
2022-05-05 00:00:00	121.744217	18.272717	63.583687	289.631958	437.495361

2022-05-06 00:00:00	121.547737	18.708935	63.810383	294.119568	443.695190
2022-05-09 00:00:00	119.720390	18.030375	63.682247	286.521393	433.240356
2022-05-10 00:00:00	116.802536	17.952824	63.090866	283.024445	433.526642
2022-05-11 00:00:00	116.065704	17.952824	63.386555	284.005188	434.790314
2022-05-12 00:00:00	115.967453	17.865580	63.583687	289.067291	429.044556
2022-05-13 00:00:00	116.999016	18.166084	64.776314	289.872437	429.617188
2022-05-16 00:00:00	116.183601	18.796179	65.012871	297.575745	431.966797
2022-05-17 00:00:00	120.034775	19.135462	64.835449	299.583557	435.372803
2022-05-18 00:00:00	117.981461	18.708935	60.321217	293.410980	428.787872
2022-05-19 00:00:00	116.232719	18.437511	59.138447	284.544739	420.189026
2022-05-20 00:00:00	115.279747	18.447205	60.104374	297.048950	418.737793
2022-05-24 00:00:00	124.141380	18.553835	63.100719	304.116058	437.130096
2022-05-25 00:00:00	125.005920	18.796179	63.150002	305.159729	441.829346
2022-05-26 00:00:00	127.167297	19.019136	63.376705	311.570862	442.273590
2022-05-27 00:00:00	128.965179	19.329336	63.751247	321.530487	444.810791
2022-05-31 00:00:00	129.908310	19.086992	62.469910	311.550995	437.211182
2022-06-01 00:00:00	127.629051	19.406885	62.164364	309.205200	436.406525
2022-06-02 00:00:00	129.682343	19.348722	62.814884	300.607361	438.204590
2022-06-03 00:00:00	127.874664	19.319641	62.065800	299.832031	439.774200
2022-06-06 00:00:00	127.452209	19.183931	61.967236	301.531738	440.489471
2022-06-07 00:00:00	127.786247	19.523211	62.341778	310.219086	453.294556
2022-06-08 00:00:00	125.752579	19.251785	61.986946	311.600708	440.489471
2022-06-09 00:00:00	123.109818	18.699242	60.912598	301.422394	429.869873
2022-06-10 00:00:00	117.450951	18.447205	60.528198	295.220032	427.356537
2022-06-13 00:00:00	113.953453	17.574766	60.459206	289.524567	421.137756
2022-06-14 00:00:00	112.057335	17.342117	58.801292	289.037506	413.428894
2022-06-15 00:00:00	113.383636	17.060999	59.238106	291.224213	411.372528
2022-06-16 00:00:00	111.438408	16.188560	58.642448	286.333893	402.123840
2022-06-17 00:00:00	111.045425	15.558467	58.999844	289.146820	401.348969
2022-06-21 00:00:00	113.796265	16.140091	60.260651	295.548035	416.200500
2022-06-22 00:00:00	113.157677	15.839586	60.707397	304.841675	412.713623
2022-06-23 00:00:00	111.919792	15.742648	61.432110	310.835358	407.915436
2022-06-24 00:00:00	115.260101	15.975299	62.583717	323.657593	416.279968
2022-06-27 00:00:00	114.336601	16.314579	62.454655	325.297638	416.488586
2022-06-28 00:00:00	113.786438	16.673248	61.829216	315.705780	417.938965
2022-06-29 00:00:00	113.275574	16.401823	62.275959	321.053375	416.130981
2022-06-30 00:00:00	110.632805	16.246723	62.454655	322.275970	427.128052
2022-07-05 00:00:00	111.621330	16.072235	62.821976	325.208191	412.514923
2022-07-06 00:00:00	110.897804	15.858974	62.951035	328.160278	423.084869
2022-07-07 00:00:00	113.702705	16.372742	62.454655	325.973572	419.409241
2022-07-08 00:00:00	113.345901	16.450293	62.682991	328.478363	417.581360
2022-07-11 00:00:00	111.859200	16.343662	62.484436	329.074738	416.309784
2022-07-12 00:00:00	111.968224	16.140091	62.216393	321.639832	411.263214
2022-07-13 00:00:00	110.917625	16.091623	61.928493	320.516632	405.312683
2022-07-14 00:00:00	107.042297	16.072235	61.729939	324.919952	397.673340
2022-07-15 00:00:00	111.948402	16.246723	62.047623	329.601562	395.756042
2022-07-18 00:00:00	110.798691	16.411518	61.203777	319.830780	384.729156
2022-07-19 00:00:00	113.544121	16.779879	62.077404	324.234100	387.808746

2022-07-20	00:00:00	113.524307	16.789574	61.054863	320.089233	392.616852
2022-07-21	00:00:00	114.297386	17.119160	60.915874	324.949768	392.597015
2022-07-22	00:00:00	113.742355	17.109467	61.144211	326.768707	392.140015
2022-07-25	00:00:00	114.198273	17.468136	61.739864	329.551849	397.166687
2022-07-26	00:00:00	112.414230	17.448750	62.752483	329.561798	394.196381
2022-07-27	00:00:00	114.218094	17.506910	62.553928	326.957581	395.915009
2022-07-28	00:00:00	113.791908	17.487524	63.596329	328.806366	403.405334
2022-07-29	00:00:00	114.337029	17.712000	63.705532	327.703064	411.084412
2022-08-02	00:00:00	111.433014	17.554472	63.179371	318.270264	425.955811
2022-08-03	00:00:00	112.602547	17.534781	63.457344	311.938629	426.472382
2022-08-04	00:00:00	111.363632	17.032661	63.209152	303.947113	425.310120
2022-08-05	00:00:00	114.733490	17.200035	62.921253	299.504028	423.601440
2022-08-08	00:00:00	113.335983	17.406790	62.514221	300.676910	421.068207
2022-08-09	00:00:00	114.356850	17.761229	62.593643	301.193787	425.727325
2022-08-10	00:00:00	117.340164	17.859682	63.189301	302.774170	427.157837
2022-08-11	00:00:00	119.074646	18.302729	62.762413	299.354950	426.025360
2022-08-12	00:00:00	121.046997	18.401184	63.238937	307.222992	431.379852
2022-08-15	00:00:00	121.374069	18.283037	64.033150	313.066711	435.125031
2022-08-16	00:00:00	122.533691	18.361801	64.559311	309.446808	437.260864
2022-08-17	00:00:00	121.502914	18.283037	64.410393	315.938690	438.681427
2022-08-18	00:00:00	120.561340	18.637474	64.747940	315.838959	436.456207
2022-08-19	00:00:00	117.578033	18.430717	64.698296	321.872131	437.131714
2022-08-22	00:00:00	115.635414	18.273191	63.735317	322.201233	429.482422
2022-08-23	00:00:00	114.495605	18.598091	63.804810	314.223480	430.267242
2022-08-24	00:00:00	114.773132	18.903303	63.894161	317.982971	430.853333
2022-08-25	00:00:00	117.498749	18.962374	64.201912	322.241119	435.750885
2022-08-26	00:00:00	113.653145	18.696547	62.653210	314.682190	428.290344
2022-08-29	00:00:00	113.375633	18.647320	62.275959	309.287231	426.849884
2022-08-30	00:00:00	113.395462	18.194427	61.700157	306.185913	422.309967
2022-08-31	00:00:00	112.721489	18.036900	61.263340	300.392059	420.109985
2022-09-01	00:00:00	113.494568	17.889217	61.551243	308.270081	422.609985
2022-09-02	00:00:00	112.701660	17.938444	60.707397	300.491760	418.570007
2022-09-06	00:00:00	112.731392	17.495399	60.737179	305.966522	417.779999
2022-09-07	00:00:00	114.872246	17.574163	61.859001	310.733215	420.140015
2022-09-08	00:00:00	117.548302	17.751383	61.670372	314.622345	419.649994
2022-09-09	00:00:00	118.113243	18.027054	61.868927	316.816254	421.529999
2022-09-12	00:00:00	119.510742	18.450409	62.047623	314.343140	418.640015
2022-09-13	00:00:00	115.357895	17.889217	60.032318	305.627472	409.329987
2022-09-14	00:00:00	115.090294	18.243656	60.350002	308.748718	416.630005
2022-09-15	00:00:00	116.824776	18.046745	59.529999	308.609131	413.589996
2022-09-16	00:00:00	116.041779	17.574163	59.540001	308.030762	414.290009
2022-09-19	00:00:00	117.112206	17.771072	59.990002	304.241302	416.519989
2022-09-20	00:00:00	114.802864	17.623390	59.900002	300.890686	420.579987
2022-09-21	00:00:00	111.492477	17.249264	59.400002	295.655273	420.200012
2022-09-22	00:00:00	110.223831	17.052353	59.259998	310.005219	422.079987
2022-09-23	00:00:00	108.172188	16.274563	58.599998	310.593597	413.070007
2022-09-26	00:00:00	105.843025	15.841361	57.869999	306.644623	407.649994
2022-09-27	00:00:00	104.911362	16.077652	56.380001	310.234619	399.739990

2022-09-28 00:00:00	107.032387	16.579771	56.980000	333.449829	400.000000
2022-09-29 00:00:00	105.218620	16.461624	56.570000	329.092010	389.790009
2022-09-30 00:00:00	103.573334	16.382860	56.020000	322.450531	386.290009
2022-10-03 00:00:00	106.774696	16.835752	56.650002	320.655518	399.739990
2022-10-04 00:00:00	111.769997	17.396944	56.779999	328.972351	406.109985
2022-10-05 00:00:00	110.389999	17.426481	56.240002	330.857056	402.510010
2022-10-06 00:00:00	108.139999	17.121271	55.029999	332.023834	399.609985
2022-10-07 00:00:00	105.980003	16.973589	54.509998	325.751312	403.959991
2022-10-11 00:00:00	101.959999	16.894825	54.480000	326.688690	411.059998
2022-10-12 00:00:00	103.610001	16.786526	55.139999	323.667145	397.420013
2022-10-13 00:00:00	109.370003	17.367407	55.869999	331.176178	405.959991
2022-10-14 00:00:00	111.190002	16.924362	54.980000	330.468170	389.410004
2022-10-17 00:00:00	115.860001	17.229572	55.689999	331.834351	397.309998
2022-10-18 00:00:00	118.839996	17.495399	56.439999	334.098022	431.839996
2022-10-19 00:00:00	116.510002	17.712000	55.959999	328.373993	439.959991
2022-10-20 00:00:00	116.129997	16.855444	55.080002	328.154602	444.339996
2022-10-21 00:00:00	122.230003	17.249264	55.959999	339.822052	454.609985
2022-10-24 00:00:00	122.379997	17.012972	57.570000	346.932220	457.459991
2022-10-25 00:00:00	122.699997	17.239418	58.950001	350.332733	460.149994
2022-10-26 00:00:00	124.110001	17.456017	59.389999	356.864502	462.559998
2022-10-27 00:00:00	124.599998	17.712000	59.529999	355.338776	471.929993
2022-10-28 00:00:00	126.080002	17.770000	60.759998	358.898834	484.869995
2022-10-31 00:00:00	125.879997	18.120001	59.849998	361.082764	486.679993
2022-11-01 00:00:00	128.149994	18.240000	59.639999	351.599213	485.630005
2022-11-02 00:00:00	126.970001	17.900000	58.810001	353.972595	482.059998
2022-11-03 00:00:00	127.199997	18.040001	58.779999	360.673889	484.820007
2022-11-04 00:00:00	130.679993	18.170000	59.259998	356.415771	481.670013
2022-11-07 00:00:00	131.369995	18.250000	59.490002	364.054474	488.630005
2022-11-08 00:00:00	131.449997	18.309999	59.599998	365.640045	494.119995
2022-11-09 00:00:00	129.740005	17.580000	58.770000	362.259460	485.179993
2022-11-10 00:00:00	135.080002	18.200001	60.880001	367.694305	490.769989
2022-11-11 00:00:00	135.300003	18.690001	61.320000	351.319977	463.859985
2022-11-14 00:00:00	133.910004	18.530001	60.730000	356.059998	462.040009
2022-11-15 00:00:00	132.940002	18.660000	60.630001	349.950012	467.250000
2022-11-16 00:00:00	133.119995	18.410000	60.520000	352.929993	466.239990
2022-11-17 00:00:00	132.539993	18.299999	60.709999	360.769989	472.769989
2022-11-18 00:00:00	133.839996	18.420000	61.139999	361.670013	476.820007
2022-11-21 00:00:00	133.050003	18.280001	62.080002	361.170013	480.940002
2022-11-22 00:00:00	135.039993	18.719999	62.349998	360.880005	479.500000
2022-11-23 00:00:00	136.479996	18.650000	62.630001	361.720001	481.070007

Date	MO	MON	MRK	MS	MSFT \
2021-03-16 00:00:00	43.404179	9.785	69.581032	78.276802	234.083527
2021-03-17 00:00:00	43.702671	9.680	70.024918	79.528610	233.423752
2021-03-18 00:00:00	44.396221	9.770	69.997749	79.604492	227.200180
2021-03-19 00:00:00	44.378662	9.750	70.215141	78.656136	226.835800
2021-03-22 00:00:00	45.335590	9.700	70.215141	77.688812	232.389786

2021-03-23 00:00:00	44.343544	9.660	69.091850	75.033440	233.955521
2021-03-24 00:00:00	44.218502	9.700	69.064682	75.232597	231.867874
2021-03-25 00:00:00	44.825829	9.600	68.910683	75.991272	228.795456
2021-03-26 00:00:00	46.888950	9.655	70.106445	75.849022	232.872314
2021-03-29 00:00:00	46.710320	9.800	70.930801	73.857491	231.651230
2021-03-30 00:00:00	45.781475	9.800	69.716911	75.004990	228.312958
2021-03-31 00:00:00	45.692162	9.628	69.834679	73.648857	232.173141
2021-04-01 00:00:00	45.549259	9.750	69.834679	74.179924	238.652756
2021-04-05 00:00:00	45.835060	9.750	69.753151	73.971291	245.270248
2021-04-06 00:00:00	45.888645	9.770	68.657028	75.004990	244.078705
2021-04-07 00:00:00	45.665367	9.790	68.955971	74.957565	246.087585
2021-04-08 00:00:00	45.977962	9.790	68.385262	76.057655	249.386475
2021-04-09 00:00:00	45.986897	9.790	69.128090	76.550804	251.946808
2021-04-12 00:00:00	46.219105	9.910	69.046562	76.038689	252.005890
2021-04-13 00:00:00	45.701088	9.920	69.236794	75.422264	254.546509
2021-04-14 00:00:00	45.861855	9.790	69.209625	76.617188	251.690765
2021-04-15 00:00:00	46.094063	9.850	69.445152	76.645638	255.541107
2021-04-16 00:00:00	46.719257	9.810	70.178925	74.530807	256.762146
2021-04-19 00:00:00	43.834469	9.900	70.351036	75.896431	254.792709
2021-04-20 00:00:00	42.146461	9.900	71.175392	73.297951	254.320023
2021-04-21 00:00:00	42.494781	10.000	71.773270	75.156731	256.604614
2021-04-22 00:00:00	41.530209	9.870	70.622803	74.246307	253.246689
2021-04-23 00:00:00	42.325092	9.790	70.550323	76.768921	257.165955
2021-04-26 00:00:00	42.173260	9.760	70.233269	77.309471	257.559814
2021-04-27 00:00:00	42.119667	9.760	70.079277	77.726761	257.973450
2021-04-28 00:00:00	42.137531	9.710	69.834679	78.457001	250.676483
2021-04-29 00:00:00	41.619518	9.720	66.745621	79.656982	248.657730
2021-04-30 00:00:00	42.646610	9.720	67.488441	78.618881	248.332794
2021-05-03 00:00:00	43.200348	9.720	68.829155	78.533173	248.017670
2021-05-04 00:00:00	42.735924	9.740	68.838211	78.704613	244.009750
2021-05-05 00:00:00	43.182487	9.705	70.387268	80.485558	242.709885
2021-05-06 00:00:00	44.200649	9.730	70.459755	82.695076	245.920166
2021-05-07 00:00:00	44.611481	9.750	71.030449	83.523636	248.608505
2021-05-10 00:00:00	45.263458	9.750	70.813049	82.352219	243.409058
2021-05-11 00:00:00	45.040184	9.750	70.169861	80.876015	242.473526
2021-05-12 00:00:00	44.075607	9.750	70.659035	79.695068	235.353867
2021-05-13 00:00:00	44.763313	9.740	71.284103	80.818878	239.322372
2021-05-14 00:00:00	44.906208	9.720	70.921745	83.190300	244.364258
2021-05-17 00:00:00	44.843693	9.740	72.353043	83.895073	241.439590
2021-05-18 00:00:00	44.647213	9.750	71.909149	82.828407	239.371643
2021-05-19 00:00:00	44.155991	9.680	71.891037	81.952217	239.963806
2021-05-20 00:00:00	44.682930	9.730	72.162811	82.352219	243.280212
2021-05-21 00:00:00	44.656139	9.700	71.727982	84.133156	241.987198
2021-05-25 00:00:00	44.307819	9.680	70.206093	84.628395	248.452179
2021-05-26 00:00:00	44.138126	9.720	69.961510	85.095055	248.225189
2021-05-27 00:00:00	43.941643	9.720	68.774803	85.999832	246.073486
2021-05-28 00:00:00	43.959507	9.720	68.747627	86.618866	246.438675
2021-06-01 00:00:00	44.084538	9.710	68.104446	87.723633	244.188263

2021-06-02 00:00:00	44.218502	9.710	68.729492	88.342682	244.089554
2021-06-03 00:00:00	44.459656	9.710	70.167755	88.904579	242.520218
2021-06-04 00:00:00	44.450718	9.710	70.357635	89.485542	247.534241
2021-06-07 00:00:00	45.093769	9.710	69.113968	88.771248	250.515076
2021-06-08 00:00:00	44.548962	9.750	68.734207	88.371254	249.291168
2021-06-09 00:00:00	44.566830	9.740	70.291176	88.256966	250.297897
2021-06-10 00:00:00	44.781174	9.700	72.284843	87.314110	253.900528
2021-06-11 00:00:00	44.441788	9.720	72.408264	87.666496	254.542114
2021-06-14 00:00:00	43.696548	9.740	72.245483	86.399826	256.516113
2021-06-15 00:00:00	43.532963	9.740	72.484863	86.380775	255.005966
2021-06-16 00:00:00	43.051277	9.740	73.356216	86.761719	254.038681
2021-06-17 00:00:00	42.596863	9.710	73.949883	83.723656	257.512970
2021-06-18 00:00:00	42.087917	9.700	73.356216	80.085548	256.062103
2021-06-21 00:00:00	42.978577	9.680	73.490273	81.847450	259.220581
2021-06-22 00:00:00	42.933136	9.770	72.954056	81.618874	262.063202
2021-06-23 00:00:00	42.733192	9.690	72.369965	81.780792	261.826263
2021-06-24 00:00:00	43.105808	9.720	73.116829	82.933167	263.227844
2021-06-25 00:00:00	43.278488	9.680	73.921150	84.190315	261.579559
2021-06-28 00:00:00	42.878601	9.680	73.595589	83.523636	265.231476
2021-06-29 00:00:00	42.515068	9.650	73.930740	86.323631	267.876678
2021-06-30 00:00:00	43.333015	9.685	74.466942	87.323631	267.383148
2021-07-02 00:00:00	43.196690	9.655	75.261696	87.647438	274.045563
2021-07-06 00:00:00	42.415100	9.730	74.792519	85.914108	274.055389
2021-07-07 00:00:00	42.524162	9.730	75.223389	85.742683	276.295959
2021-07-08 00:00:00	42.196976	9.749	74.802094	83.466492	273.818573
2021-07-09 00:00:00	43.078545	9.663	74.677597	86.028404	274.331848
2021-07-12 00:00:00	43.160339	9.700	74.256294	88.333145	273.719849
2021-07-13 00:00:00	42.569599	9.680	74.313744	88.771248	277.332336
2021-07-14 00:00:00	43.223957	9.730	74.323318	88.056961	278.842499
2021-07-15 00:00:00	43.160339	9.670	74.591423	88.218864	277.381683
2021-07-16 00:00:00	42.996746	9.670	74.706337	86.904587	277.105316
2021-07-19 00:00:00	42.524162	9.670	73.777527	85.095055	273.413879
2021-07-20 00:00:00	42.905865	9.710	72.934906	87.923630	275.693878
2021-07-21 00:00:00	43.014931	9.700	73.145561	91.123627	277.746857
2021-07-22 00:00:00	42.705925	9.680	73.279610	91.018860	282.425385
2021-07-23 00:00:00	43.160339	9.680	74.246712	90.047440	285.909515
2021-07-26 00:00:00	43.269394	9.675	73.959457	91.942665	285.297577
2021-07-27 00:00:00	43.432991	9.665	74.543549	91.885536	282.820160
2021-07-28 00:00:00	43.278488	9.690	75.003166	91.495056	282.504272
2021-07-29 00:00:00	44.169140	9.670	73.662628	92.368088	282.780670
2021-07-30 00:00:00	43.660194	9.710	73.605171	92.080276	281.211334
2021-08-03 00:00:00	43.432991	9.720	73.164719	92.675079	283.392639
2021-08-04 00:00:00	42.742275	9.680	72.274216	92.377670	282.790558
2021-08-05 00:00:00	43.042191	9.670	72.379524	93.855103	285.761444
2021-08-06 00:00:00	43.033100	9.710	72.235909	95.677902	285.702209
2021-08-09 00:00:00	43.151249	9.730	72.121010	96.646866	284.586914
2021-08-10 00:00:00	43.723816	9.730	71.996529	97.894051	282.721436
2021-08-11 00:00:00	43.778343	9.690	72.015678	99.659279	283.224823

2021-08-12 00:00:00	43.732903	9.690	72.810425	100.417183	286.047699
2021-08-13 00:00:00	44.169140	9.690	73.461548	99.716850	289.048279
2021-08-16 00:00:00	43.978291	9.690	74.620163	99.505783	290.775513
2021-08-17 00:00:00	44.132793	9.660	75.481926	98.690323	289.275208
2021-08-18 00:00:00	43.823784	9.650	74.486092	97.145737	287.505127
2021-08-19 00:00:00	43.841961	9.650	75.127647	95.677902	293.478088
2021-08-20 00:00:00	44.050995	9.650	75.338303	96.570122	300.983887
2021-08-23 00:00:00	44.060078	9.640	75.051041	98.009171	301.270660
2021-08-24 00:00:00	43.814697	9.640	74.419067	98.901382	299.263184
2021-08-25 00:00:00	44.214581	9.660	73.796677	99.860748	298.659973
2021-08-26 00:00:00	44.305462	9.660	73.317917	99.620911	295.772369
2021-08-27 00:00:00	45.014351	9.660	73.059387	101.165497	296.395386
2021-08-30 00:00:00	45.168854	9.660	73.250893	99.860748	300.222443
2021-08-31 00:00:00	45.650536	9.740	73.049812	100.186935	298.531433
2021-09-01 00:00:00	45.514214	9.680	72.944473	100.071815	298.481995
2021-09-02 00:00:00	46.386688	9.700	73.844566	100.570686	297.809509
2021-09-03 00:00:00	46.323067	9.700	73.978615	100.014252	297.799652
2021-09-07 00:00:00	46.159477	9.700	72.752975	99.947098	296.850281
2021-09-08 00:00:00	46.241276	9.700	72.159309	99.361885	296.879913
2021-09-09 00:00:00	45.977715	9.700	70.684708	99.620911	293.952789
2021-09-10 00:00:00	45.986797	9.720	70.330429	99.409851	292.429840
2021-09-13 00:00:00	45.514214	9.710	70.071899	100.158165	293.695648
2021-09-14 00:00:00	44.764584	9.720	69.666130	97.769333	296.464600
2021-09-15 00:00:00	45.560482	9.670	70.342400	98.853416	301.438843
2021-09-16 00:00:00	45.153278	9.700	69.530869	98.306572	301.834381
2021-09-17 00:00:00	44.986694	9.700	69.250702	97.615829	296.543762
2021-09-20 00:00:00	44.551723	9.720	69.492226	94.622589	291.035492
2021-09-21 00:00:00	44.449928	9.720	69.530869	94.306015	291.529938
2021-09-22 00:00:00	44.644272	9.710	69.598503	96.704430	295.268036
2021-09-23 00:00:00	45.171787	9.730	70.574272	99.342697	296.237152
2021-09-24 00:00:00	44.847874	9.730	71.115288	98.728706	296.029541
2021-09-27 00:00:00	45.107002	9.730	70.873764	100.829720	290.906982
2021-09-28 00:00:00	44.672043	9.730	70.835121	97.894051	280.375092
2021-09-29 00:00:00	45.107002	9.740	72.545135	95.505219	280.849792
2021-09-30 00:00:00	42.127018	9.760	72.564461	93.356216	278.792847
2021-10-01 00:00:00	42.441677	9.760	78.641281	95.025528	285.893188
2021-10-04 00:00:00	43.033970	9.740	80.283669	93.202728	279.969635
2021-10-05 00:00:00	42.728565	9.770	78.834503	95.169434	285.556946
2021-10-06 00:00:00	42.987698	9.760	77.926361	95.073502	289.858734
2021-10-07 00:00:00	43.015457	9.770	79.162987	94.785690	291.579407
2021-10-08 00:00:00	43.246830	9.760	77.897377	95.975304	291.579407
2021-10-12 00:00:00	43.635521	9.760	76.892624	93.807137	289.631256
2021-10-13 00:00:00	44.348122	9.760	76.274315	94.565033	293.023193
2021-10-14 00:00:00	45.042221	9.950	75.675331	96.905899	299.391815
2021-10-15 00:00:00	45.069984	9.750	75.675331	97.989983	300.835602
2021-10-18 00:00:00	44.542473	9.780	74.535316	97.289650	303.881439
2021-10-19 00:00:00	44.329620	9.780	76.796013	97.615829	304.811005
2021-10-20 00:00:00	44.820110	9.750	78.322472	96.570122	304.000061

2021-10-21 00:00:00	44.635021	9.750	78.419083	96.205551	307.312927
2021-10-22 00:00:00	44.625763	9.760	78.399757	97.663811	305.730682
2021-10-25 00:00:00	44.375889	9.780	78.892471	97.769333	304.712067
2021-10-26 00:00:00	44.523964	9.760	79.462479	99.265945	306.670135
2021-10-27 00:00:00	43.959435	9.770	78.776543	97.730957	319.585266
2021-10-28 00:00:00	41.257084	9.760	83.616745	99.015747	320.752167
2021-10-29 00:00:00	40.822113	9.760	85.065918	99.286224	327.941528
2021-11-01 00:00:00	40.766586	9.760	84.863022	100.464752	325.716461
2021-11-02 00:00:00	40.859138	9.770	86.003036	101.102325	329.434814
2021-11-03 00:00:00	41.608757	9.780	85.674553	99.122002	330.295135
2021-11-04 00:00:00	41.284847	9.780	87.471519	96.397873	332.708069
2021-11-05 00:00:00	41.830872	9.755	78.844170	96.475159	332.332306
2021-11-08 00:00:00	41.710560	9.770	79.877899	96.668350	333.251953
2021-11-09 00:00:00	41.451431	9.770	79.916550	96.320587	332.223541
2021-11-10 00:00:00	41.414410	9.750	81.162819	94.446533	327.130615
2021-11-11 00:00:00	41.553234	9.770	81.172485	95.518799	328.742584
2021-11-12 00:00:00	41.571739	9.760	81.153175	96.455818	332.984985
2021-11-15 00:00:00	41.830872	9.750	80.853676	96.803589	332.342194
2021-11-16 00:00:00	41.136772	9.750	81.259438	97.267273	335.744080
2021-11-17 00:00:00	41.109009	9.740	79.800613	94.359596	335.971893
2021-11-18 00:00:00	40.729568	9.740	80.235367	94.359596	338.101929
2021-11-19 00:00:00	40.165039	9.760	77.964996	93.615768	339.924835
2021-11-22 00:00:00	40.711063	9.750	78.873154	95.943848	336.675293
2021-11-23 00:00:00	40.942429	9.810	79.993851	98.397507	334.545258
2021-11-24 00:00:00	40.794353	9.810	79.491463	97.682655	334.773132
2021-11-26 00:00:00	40.479698	9.810	76.477203	94.601089	326.619507
2021-11-29 00:00:00	40.239075	9.780	72.351921	93.924889	333.505005
2021-11-30 00:00:00	39.461689	9.800	72.371239	91.596809	327.521088
2021-12-01 00:00:00	39.785599	9.780	71.917168	92.021851	327.015808
2021-12-02 00:00:00	39.989201	9.780	71.385796	95.499474	326.431305
2021-12-03 00:00:00	40.646278	9.790	70.854439	94.871574	320.011444
2021-12-06 00:00:00	41.118267	9.790	70.931725	95.895538	323.161896
2021-12-07 00:00:00	41.173798	9.800	69.830368	99.015747	331.810883
2021-12-08 00:00:00	41.201557	9.800	70.728851	97.808243	331.860443
2021-12-09 00:00:00	41.266338	9.760	70.390717	97.161018	330.007751
2021-12-10 00:00:00	41.729073	9.760	70.158852	95.084099	339.360138
2021-12-13 00:00:00	41.978947	9.750	70.931725	93.866920	336.249268
2021-12-14 00:00:00	42.015965	9.750	71.897255	95.460831	325.291962
2021-12-15 00:00:00	42.534222	9.760	73.428436	96.050095	331.543365
2021-12-16 00:00:00	43.820610	9.760	74.033112	96.890526	321.883911
2021-12-17 00:00:00	44.653526	9.770	73.818550	93.828285	320.794098
2021-12-20 00:00:00	44.523964	9.770	74.520752	92.128120	316.940216
2021-12-21 00:00:00	44.209309	9.730	73.672249	94.446533	324.251709
2021-12-22 00:00:00	44.218739	9.750	74.276924	94.958527	330.106842
2021-12-23 00:00:00	44.048958	9.750	73.857567	95.963158	331.583038
2021-12-29 00:00:00	44.709221	9.770	75.047386	95.373894	338.775604
2021-12-30 00:00:00	44.567730	9.750	75.232697	95.441521	336.170044
2021-12-31 00:00:00	44.699787	9.760	74.745056	94.823273	333.197906

2022-01-04 00:00:00	46.246685	9.750	75.105911	100.715919	325.955750
2022-01-05 00:00:00	45.878822	9.750	76.929672	98.223618	313.443024
2022-01-06 00:00:00	46.416466	9.760	76.880905	99.904465	310.966156
2022-01-07 00:00:00	46.944679	9.750	78.314568	100.513062	311.124725
2022-01-10 00:00:00	47.670967	9.740	80.333389	100.590332	311.352570
2022-01-11 00:00:00	46.671143	9.740	79.650681	102.319489	312.056030
2022-01-12 00:00:00	46.680576	9.740	79.192314	99.547058	315.315430
2022-01-13 00:00:00	47.454025	9.750	79.309341	99.064049	301.970459
2022-01-14 00:00:00	47.925644	9.740	79.367859	95.518799	307.320374
2022-01-18 00:00:00	47.595509	9.740	79.523903	90.814354	299.840424
2022-01-19 00:00:00	47.246513	9.740	79.280090	92.475883	300.514130
2022-01-20 00:00:00	47.472893	9.720	78.753441	96.436508	298.800171
2022-01-21 00:00:00	47.463459	9.735	78.002480	95.499474	293.281921
2022-01-24 00:00:00	47.114460	9.730	76.880905	94.745995	293.618774
2022-01-25 00:00:00	47.189919	9.710	77.495331	95.673363	285.811920
2022-01-26 00:00:00	46.661709	9.730	77.183235	96.764946	293.955597
2022-01-27 00:00:00	47.482319	9.710	78.587639	97.711639	297.056519
2022-01-28 00:00:00	47.614372	9.710	78.899727	99.024841	305.398407
2022-01-31 00:00:00	47.991669	9.770	79.465393	99.744659	308.093140
2022-02-01 00:00:00	47.765289	9.770	79.894516	101.116219	305.893738
2022-02-02 00:00:00	47.633240	9.740	79.982292	101.087036	310.550079
2022-02-03 00:00:00	47.557777	9.730	77.056458	99.501472	298.453461
2022-02-04 00:00:00	47.340836	9.730	76.617577	101.271858	303.099915
2022-02-07 00:00:00	47.529480	9.780	75.661819	102.312691	298.156219
2022-02-08 00:00:00	47.557777	9.740	75.008385	103.450798	301.732697
2022-02-09 00:00:00	47.727562	9.740	74.637772	105.765923	308.321014
2022-02-10 00:00:00	47.331402	9.760	74.667030	104.637535	299.572968
2022-02-11 00:00:00	47.510616	9.750	74.745056	101.719315	292.301086
2022-02-14 00:00:00	47.246513	9.750	74.579262	99.773842	292.261475
2022-02-15 00:00:00	47.463459	9.750	75.886124	100.610397	297.680664
2022-02-16 00:00:00	47.736992	9.750	75.310715	98.392548	297.333191
2022-02-17 00:00:00	48.453850	9.780	74.471977	93.528862	288.626678
2022-02-18 00:00:00	48.802849	9.770	74.481735	92.818748	285.846893
2022-02-22 00:00:00	48.368958	9.760	74.072121	92.167023	285.638458
2022-02-23 00:00:00	49.000927	9.750	73.964836	90.999741	278.242340
2022-02-24 00:00:00	46.756031	9.780	71.692444	89.307167	292.458710
2022-02-25 00:00:00	48.557606	9.780	74.432968	91.972473	295.159088
2022-02-28 00:00:00	48.378395	9.770	74.686546	88.266342	296.628357
2022-03-01 00:00:00	48.642494	9.760	74.452469	85.241119	292.816162
2022-03-02 00:00:00	49.812107	9.750	74.774315	85.970673	298.018250
2022-03-03 00:00:00	50.151665	9.750	75.242447	85.387032	293.779144
2022-03-04 00:00:00	50.453506	9.760	75.905632	84.005745	287.762939
2022-03-07 00:00:00	49.849834	9.760	75.808113	81.175072	276.892181
2022-03-08 00:00:00	48.001099	9.760	75.047386	81.038879	273.854309
2022-03-09 00:00:00	48.104855	9.760	75.866623	85.017395	286.412811
2022-03-10 00:00:00	48.321800	9.780	75.964157	83.519371	283.523834
2022-03-11 00:00:00	47.614372	9.820	76.325005	82.857910	278.043793
2022-03-14 00:00:00	47.670967	9.820	76.531631	82.410446	274.440063

2022-03-15	00:00:00	48.614201	9.820	77.377831	83.976555	285.072571
2022-03-16	00:00:00	48.368958	9.780	76.866173	89.258537	292.260193
2022-03-17	00:00:00	48.755684	9.760	77.673019	91.301285	293.084198
2022-03-18	00:00:00	48.746254	9.788	77.840286	92.235107	298.256470
2022-03-21	00:00:00	49.283897	9.760	77.791084	90.085358	296.995697
2022-03-22	00:00:00	50.283722	9.760	78.027245	91.651474	301.860229
2022-03-23	00:00:00	50.198833	9.776	78.450340	89.861626	297.323273
2022-03-24	00:00:00	50.371532	9.760	79.119431	89.618446	301.899963
2022-03-25	00:00:00	51.446125	9.760	80.034492	89.861626	301.482971
2022-03-28	00:00:00	49.920586	9.770	79.906586	88.781891	308.452209
2022-03-29	00:00:00	49.584778	9.770	80.260811	89.336349	313.128143
2022-03-30	00:00:00	49.939777	9.780	81.077484	87.809151	311.589325
2022-03-31	00:00:00	50.131668	9.790	80.733101	85.017395	306.079468
2022-04-01	00:00:00	50.573017	9.800	82.179504	84.618568	307.181458
2022-04-04	00:00:00	50.582615	9.800	82.149986	84.900658	312.691284
2022-04-05	00:00:00	50.505856	9.805	82.376297	82.955185	308.630920
2022-04-06	00:00:00	51.647614	9.800	83.606239	80.863792	297.333191
2022-04-07	00:00:00	51.551662	9.810	85.406868	80.863792	299.189697
2022-04-08	00:00:00	51.916260	9.810	86.272736	81.768440	294.821533
2022-04-11	00:00:00	52.242474	9.810	85.239594	81.729530	283.196289
2022-04-12	00:00:00	52.683826	9.800	84.255638	81.641983	280.019409
2022-04-13	00:00:00	52.578285	9.820	84.747612	81.836533	285.539185
2022-04-14	00:00:00	52.750988	9.820	85.515106	82.449356	277.805511
2022-04-18	00:00:00	52.386395	9.820	84.688583	84.122475	278.490509
2022-04-19	00:00:00	52.981258	9.820	84.413071	86.486229	283.235962
2022-04-20	00:00:00	53.125175	9.820	85.072319	88.139885	284.288300
2022-04-21	00:00:00	54.238148	9.820	84.846016	86.486229	278.778412
2022-04-22	00:00:00	53.278687	9.820	83.232330	82.429901	272.047485
2022-04-25	00:00:00	52.990852	9.820	84.068695	82.731453	278.689087
2022-04-26	00:00:00	52.655041	9.820	83.124100	80.124519	268.265045
2022-04-27	00:00:00	52.693420	9.820	83.055229	79.968880	281.171021
2022-04-28	00:00:00	52.962067	9.820	87.158295	81.823143	287.534637
2022-04-29	00:00:00	53.317066	9.820	87.266533	79.066261	275.512238
2022-05-02	00:00:00	53.134773	9.820	86.243217	80.410362	282.411957
2022-05-03	00:00:00	53.192337	9.820	85.702049	82.166527	279.741425
2022-05-04	00:00:00	54.113419	9.830	87.099258	85.570915	287.882111
2022-05-05	00:00:00	53.681664	9.835	86.597443	83.334030	275.343475
2022-05-06	00:00:00	54.276524	9.830	86.971344	82.637451	272.742432
2022-05-09	00:00:00	53.019634	9.825	86.233383	79.615685	262.665863
2022-05-10	00:00:00	49.479237	9.820	86.400650	78.742508	267.550293
2022-05-11	00:00:00	49.594372	9.780	87.758507	77.398407	258.665009
2022-05-12	00:00:00	50.054913	9.780	89.372185	77.104073	253.502640
2022-05-13	00:00:00	50.889641	9.800	88.958931	79.017220	259.230896
2022-05-16	00:00:00	51.561260	9.790	90.838272	78.389313	259.608124
2022-05-17	00:00:00	52.040993	9.840	91.507355	81.362022	264.889679
2022-05-18	00:00:00	51.043156	9.790	90.621796	79.164383	252.829330
2022-05-19	00:00:00	49.018700	9.790	90.611954	78.448181	251.893951
2022-05-20	00:00:00	49.018700	9.790	92.048531	77.869339	251.316803

2022-05-24 00:00:00	50.784100	9.790	93.121033	80.410362	258.342041
2022-05-25 00:00:00	51.705177	9.790	92.245316	80.675262	261.227783
2022-05-26 00:00:00	52.290447	9.790	90.828423	83.392891	264.591125
2022-05-27 00:00:00	52.223286	9.815	91.586075	84.815468	271.894989
2022-05-31 00:00:00	51.897068	9.800	90.552917	84.511330	270.531769
2022-06-01 00:00:00	51.887478	9.820	89.677208	83.392891	271.079041
2022-06-02 00:00:00	51.954639	9.820	88.555504	83.589096	273.228394
2022-06-03 00:00:00	51.638016	9.800	88.466949	82.529526	268.690857
2022-06-06 00:00:00	51.417343	9.800	88.398064	83.265350	267.427094
2022-06-07 00:00:00	51.820309	9.800	89.027802	83.716644	271.158661
2022-06-08 00:00:00	47.483566	9.800	88.043846	81.626915	269.078949
2022-06-09 00:00:00	46.687214	9.815	86.587601	79.625488	263.486633
2022-06-10 00:00:00	46.955860	9.820	85.780762	75.936577	251.744690
2022-06-13 00:00:00	45.248028	9.820	83.635750	73.758553	241.067505
2022-06-14 00:00:00	45.277374	9.810	83.824234	73.542709	243.286530
2022-06-15 00:00:00	44.670933	9.810	83.953194	74.582664	250.520737
2022-06-16 00:00:00	44.387280	9.830	84.211113	72.551811	243.764160
2022-06-17 00:00:00	44.318813	9.800	83.943275	71.521660	246.430969
2022-06-21 00:00:00	44.700279	9.820	87.326004	73.218956	252.490997
2022-06-22 00:00:00	40.592155	9.800	88.446976	72.993309	251.884003
2022-06-23 00:00:00	41.580059	9.800	91.264259	72.571434	257.585785
2022-06-24 00:00:00	42.450596	9.800	92.385216	76.348640	266.382294
2022-06-27 00:00:00	42.245186	9.820	93.654984	75.975830	263.586121
2022-06-28 00:00:00	42.245186	9.840	91.155136	76.682220	255.217514
2022-06-29 00:00:00	40.846466	9.820	91.770180	76.711647	258.978912
2022-06-30 00:00:00	40.856251	9.820	90.440895	74.621918	255.565781
2022-07-05 00:00:00	40.807346	9.825	91.899139	74.670967	261.556152
2022-07-06 00:00:00	40.259594	9.825	92.385216	74.023445	264.899597
2022-07-07 00:00:00	40.895378	9.825	92.266182	75.534332	267.078827
2022-07-08 00:00:00	40.611721	9.830	92.038017	75.279251	266.342468
2022-07-11 00:00:00	41.032314	9.830	93.545868	74.386459	263.207977
2022-07-12 00:00:00	41.384438	9.840	92.851456	74.504189	252.421326
2022-07-13 00:00:00	41.042091	9.840	93.020096	73.562340	251.476013
2022-07-14 00:00:00	40.719315	9.850	93.129219	73.277824	252.829330
2022-07-15 00:00:00	41.071438	9.850	94.200584	76.574295	255.456314
2022-07-18 00:00:00	41.345314	9.840	91.601532	77.368980	252.998474
2022-07-19 00:00:00	42.020218	9.840	91.621376	80.106224	258.252502
2022-07-20 00:00:00	41.394218	9.850	88.933052	80.263199	260.979004
2022-07-21 00:00:00	41.834373	9.850	89.419128	81.450317	263.536346
2022-07-22 00:00:00	42.147373	9.850	89.389374	80.871483	259.078400
2022-07-25 00:00:00	42.871189	9.850	89.806007	80.989212	257.555908
2022-07-26 00:00:00	43.174404	9.850	90.559937	79.262489	250.660034
2022-07-27 00:00:00	43.105934	9.860	90.500420	80.949966	267.417145
2022-07-28 00:00:00	43.037468	9.860	89.220734	82.153290	275.049408
2022-07-29 00:00:00	42.900532	9.870	88.625526	83.490334	279.358093
2022-08-02 00:00:00	42.871189	9.860	86.909363	82.727722	273.467224
2022-08-03 00:00:00	43.262436	9.860	86.919289	84.233131	281.079559
2022-08-04 00:00:00	43.281998	9.860	86.125679	84.540146	282.253754

2022-08-05 00:00:00	43.135277	9.860	86.710968	85.302750	281.517395
2022-08-08 00:00:00	43.252655	9.880	87.782326	85.203712	278.940155
2022-08-09 00:00:00	43.252655	9.870	88.804085	85.530548	280.910400
2022-08-10 00:00:00	43.761280	9.870	88.476730	88.036247	287.736633
2022-08-11 00:00:00	44.142750	9.888	88.218811	89.333656	285.607147
2022-08-12 00:00:00	44.162312	9.870	90.292091	90.779640	290.473114
2022-08-15 00:00:00	44.289467	9.870	89.875450	91.136177	292.025452
2022-08-16 00:00:00	44.739407	9.870	89.865532	90.938103	291.269165
2022-08-17 00:00:00	44.455750	9.880	90.311935	90.472618	290.501343
2022-08-18 00:00:00	44.612247	9.890	90.669060	90.848969	289.354553
2022-08-19 00:00:00	44.475311	9.880	91.343620	89.145493	285.345856
2022-08-22 00:00:00	44.387280	9.880	90.430977	87.610374	276.969452
2022-08-23 00:00:00	44.533997	9.880	89.478645	87.451912	275.663147
2022-08-24 00:00:00	44.798092	9.880	89.290176	87.749031	275.014984
2022-08-25 00:00:00	45.375183	9.870	89.548088	89.046448	278.066376
2022-08-26 00:00:00	44.876343	9.870	88.546173	85.976219	267.336609
2022-08-29 00:00:00	44.710060	9.850	86.889519	84.530243	264.484650
2022-08-30 00:00:00	44.132965	9.850	86.185196	83.619080	262.230988
2022-08-31 00:00:00	44.132965	9.880	84.677361	84.401497	260.735199
2022-09-01 00:00:00	44.377495	9.880	86.453041	85.342369	259.668213
2022-09-02 00:00:00	44.015591	9.880	85.540405	85.570160	255.340408
2022-09-06 00:00:00	43.594997	9.880	85.728882	84.312355	252.538300
2022-09-07 00:00:00	43.966686	9.860	86.175285	86.025742	257.364716
2022-09-08 00:00:00	44.162312	9.875	86.720879	87.590569	257.793488
2022-09-09 00:00:00	44.573124	9.860	86.641518	88.600769	263.716797
2022-09-12 00:00:00	44.162312	9.860	87.454971	89.284142	265.900635
2022-09-13 00:00:00	42.029999	9.860	85.589996	86.213921	251.281860
2022-09-14 00:00:00	41.759998	9.860	86.949997	86.342667	251.511200
2022-09-15 00:00:00	42.009998	9.860	86.750000	87.412300	244.690430
2022-09-16 00:00:00	42.290001	9.860	87.720001	86.590271	244.052231
2022-09-19 00:00:00	42.910000	9.860	86.639999	87.867882	243.832840
2022-09-20 00:00:00	42.919998	9.860	86.000000	86.352577	241.768661
2022-09-21 00:00:00	43.009998	9.860	84.529999	85.530548	238.278488
2022-09-22 00:00:00	43.270000	9.860	87.510002	83.955811	240.302780
2022-09-23 00:00:00	41.680000	9.875	86.779999	80.727127	237.251389
2022-09-26 00:00:00	41.470001	9.860	86.180000	78.993935	236.782700
2022-09-27 00:00:00	40.790001	9.860	85.839996	78.716629	235.745636
2022-09-28 00:00:00	41.410000	9.870	86.779999	80.687515	240.392548
2022-09-29 00:00:00	41.169998	9.870	86.639999	79.092972	236.832565
2022-09-30 00:00:00	40.380001	9.870	86.120003	78.251137	232.245483
2022-10-03 00:00:00	41.369999	9.890	87.550003	79.607979	240.063461
2022-10-04 00:00:00	42.500000	9.910	88.389999	83.163498	248.180588
2022-10-05 00:00:00	42.900002	9.910	88.389999	82.311760	248.499680
2022-10-06 00:00:00	42.990002	9.910	87.440002	80.529045	246.096451
2022-10-07 00:00:00	42.820000	9.890	87.599998	78.171906	233.581741
2022-10-11 00:00:00	44.349998	9.890	91.050003	76.260445	224.776550
2022-10-12 00:00:00	44.750000	9.900	90.419998	75.864281	225.115585
2022-10-13 00:00:00	45.889999	9.910	92.489998	78.558159	233.581741

2022-10-14 00:00:00	45.230000	9.910	92.180000	74.576775	227.917694
2022-10-17 00:00:00	44.590000	9.910	94.120003	76.399101	236.862488
2022-10-18 00:00:00	44.770000	9.910	94.610001	78.677010	237.829758
2022-10-19 00:00:00	44.669998	9.910	93.260002	76.894295	235.815430
2022-10-20 00:00:00	43.560001	9.920	92.940002	75.864281	235.486359
2022-10-21 00:00:00	44.480000	9.950	95.669998	78.459122	241.439575
2022-10-24 00:00:00	45.410000	9.950	97.370003	78.667107	246.555176
2022-10-25 00:00:00	45.740002	9.950	97.709999	79.736732	249.955582
2022-10-26 00:00:00	46.310001	9.950	98.410004	80.132896	230.669937
2022-10-27 00:00:00	45.419998	9.950	99.739998	79.915001	226.112778
2022-10-28 00:00:00	46.310001	9.940	100.769997	82.220001	235.207138
2022-10-31 00:00:00	46.270000	9.960	101.199997	82.169998	231.477661
2022-11-01 00:00:00	46.139999	10.000	99.760002	83.720001	227.528793
2022-11-02 00:00:00	44.840000	10.010	99.400002	84.370003	219.481476
2022-11-03 00:00:00	44.910000	9.990	98.750000	83.620003	213.647903
2022-11-04 00:00:00	45.500000	9.990	99.199997	84.849998	220.767838
2022-11-07 00:00:00	45.880001	9.990	100.070000	85.570000	227.229630
2022-11-08 00:00:00	45.900002	9.990	101.500000	85.279999	228.226822
2022-11-09 00:00:00	45.209999	10.000	101.589996	83.449997	223.879074
2022-11-10 00:00:00	44.220001	10.000	101.889999	88.800003	242.297165
2022-11-11 00:00:00	44.380001	10.000	97.959999	90.779999	246.415558
2022-11-14 00:00:00	43.959999	9.995	100.349998	89.809998	240.871185
2022-11-15 00:00:00	43.660000	9.995	99.599998	90.500000	241.290009
2022-11-16 00:00:00	43.580002	9.995	99.930000	89.820000	241.729996
2022-11-17 00:00:00	43.669998	9.995	102.309998	88.949997	241.679993
2022-11-18 00:00:00	44.200001	9.995	104.230003	89.199997	241.220001
2022-11-21 00:00:00	44.799999	9.995	105.610001	89.080002	242.050003
2022-11-22 00:00:00	45.160000	10.010	106.900002	89.669998	245.029999
2022-11-23 00:00:00	45.020000	10.010	106.820000	89.930000	247.580002

	NEE	NKE	ORCL	OXY	PEP \
Date					
2021-03-16 00:00:00	72.760925	142.769958	64.960365	27.963648	128.622894
2021-03-17 00:00:00	70.425011	142.937775	64.348175	28.827278	128.248566
2021-03-18 00:00:00	68.658592	141.309189	64.853462	26.425003	127.202385
2021-03-19 00:00:00	68.378662	135.703049	64.387032	27.894163	129.093185
2021-03-22 00:00:00	69.199135	136.472900	64.445343	27.258850	132.260529
2021-03-23 00:00:00	71.448174	135.337830	65.368484	26.395224	133.853806
2021-03-24 00:00:00	70.299530	131.429291	64.940918	26.861780	133.229935
2021-03-25 00:00:00	70.897980	126.968048	66.690033	26.504417	134.016968
2021-03-26 00:00:00	71.486794	131.261505	68.264252	27.556654	136.963547
2021-03-29 00:00:00	72.201073	131.755035	69.119370	26.802217	138.988739
2021-03-30 00:00:00	71.641228	131.222031	68.555771	27.129805	136.809982
2021-03-31 00:00:00	72.982925	131.162811	68.186516	26.425003	135.763794
2021-04-01 00:00:00	73.137375	130.807495	69.780159	27.179434	135.600632
2021-04-05 00:00:00	74.112282	133.363815	72.063736	25.124599	137.405090
2021-04-06 00:00:00	74.865181	135.377335	72.180328	25.164307	137.894562
2021-04-07 00:00:00	74.720398	134.765350	72.287682	25.114674	137.645035

2021-04-08 00:00:00	75.058235	131.942551	73.468575	24.548847	136.809982
2021-04-09 00:00:00	75.231987	133.689560	73.761345	24.409876	136.838806
2021-04-12 00:00:00	74.942398	134.864059	74.288361	24.052509	137.270691
2021-04-13 00:00:00	76.293762	131.804367	74.825127	24.112072	137.299500
2021-04-14 00:00:00	76.380623	130.540985	74.971512	25.362841	136.397278
2021-04-15 00:00:00	77.394150	131.932693	76.406143	24.677896	136.589233
2021-04-16 00:00:00	78.127739	132.564346	77.050262	24.201412	138.364868
2021-04-19 00:00:00	77.017693	130.847000	76.855080	24.360241	138.931152
2021-04-20 00:00:00	77.731987	125.457939	77.333282	23.030058	139.852570
2021-04-21 00:00:00	75.260933	128.211670	74.815376	24.270901	141.071503
2021-04-22 00:00:00	75.598785	127.501045	73.068451	23.923464	140.198105
2021-04-23 00:00:00	75.521553	128.497910	73.166039	24.469435	139.967743
2021-04-26 00:00:00	75.222321	129.889572	72.707336	24.717600	137.597031
2021-04-27 00:00:00	74.594910	130.392975	73.410019	24.906210	137.145920
2021-04-28 00:00:00	74.411514	129.011169	72.970840	25.908813	136.128540
2021-04-29 00:00:00	74.536995	131.528000	74.044388	25.749985	138.153702
2021-04-30 00:00:00	74.816910	130.896317	73.966301	25.174234	138.364868
2021-05-03 00:00:00	74.035057	131.300980	75.469246	25.948519	139.929337
2021-05-04 00:00:00	73.060158	129.840240	76.640366	25.670572	138.172913
2021-05-05 00:00:00	71.216522	130.491653	77.284492	26.851852	138.105728
2021-05-06 00:00:00	71.438522	131.755035	77.821243	26.454784	139.708588
2021-05-07 00:00:00	71.940453	136.018875	78.465370	27.189362	139.708588
2021-05-10 00:00:00	72.201073	134.627182	78.221382	26.434929	140.821976
2021-05-11 00:00:00	71.496437	135.337830	75.820580	24.350313	139.794983
2021-05-12 00:00:00	69.054344	131.656311	74.903206	24.935991	138.432053
2021-05-13 00:00:00	70.106476	131.873459	76.259750	23.536318	140.486038
2021-05-14 00:00:00	70.579453	134.163315	76.991714	24.916138	140.697159
2021-05-17 00:00:00	69.401833	134.637070	77.177139	26.196688	140.294052
2021-05-18 00:00:00	69.778290	133.798096	76.796509	25.680498	139.660599
2021-05-19 00:00:00	70.135437	131.231903	76.845322	24.886358	139.583817
2021-05-20 00:00:00	71.708786	131.537872	76.825806	24.767237	141.311447
2021-05-21 00:00:00	71.853592	130.935806	77.128342	24.935991	141.186691
2021-05-25 00:00:00	70.820763	132.574249	76.933159	24.439653	142.338455
2021-05-26 00:00:00	70.917282	135.110840	77.352806	25.104744	142.338455
2021-05-27 00:00:00	70.463608	134.785126	77.079536	25.879030	140.620407
2021-05-28 00:00:00	70.675972	134.958191	76.845322	25.769836	141.992935
2021-06-01 00:00:00	69.982170	133.029663	77.655342	28.261450	141.695389
2021-06-02 00:00:00	70.554688	132.693390	78.338493	29.015881	142.261658
2021-06-03 00:00:00	70.224770	132.693390	79.138771	29.065517	142.769226
2021-06-04 00:00:00	70.195648	132.268127	80.895462	28.926542	142.933594
2021-06-07 00:00:00	70.321785	132.475800	81.920197	28.946396	142.846573
2021-06-08 00:00:00	70.001579	131.882416	82.574066	28.976177	141.512375
2021-06-09 00:00:00	70.302376	130.389023	82.486229	28.151976	141.251358
2021-06-10 00:00:00	71.330978	129.538513	80.319656	28.132116	142.701538
2021-06-11 00:00:00	71.311562	130.487930	80.905220	28.132116	142.788574
2021-06-14 00:00:00	71.136894	129.914307	80.631966	28.082466	143.639374
2021-06-15 00:00:00	71.253334	128.856094	79.675537	28.996038	143.649048
2021-06-16 00:00:00	71.127197	128.964874	75.225266	30.326681	142.218170

2021-06-17 00:00:00	72.369247	127.501160	75.693710	28.022884	143.591034
2021-06-18 00:00:00	71.107780	126.996780	74.395706	27.794491	140.593918
2021-06-21 00:00:00	72.126663	128.648407	76.113358	29.293943	141.696075
2021-06-22 00:00:00	71.913177	131.021988	76.786758	29.800383	141.908783
2021-06-23 00:00:00	71.175705	131.635178	76.220718	30.743742	140.042816
2021-06-24 00:00:00	70.719643	132.129669	75.869377	31.518297	140.835617
2021-06-25 00:00:00	71.670593	152.651306	76.572052	32.680126	141.551056
2021-06-28 00:00:00	72.922348	150.683212	76.611092	31.021790	142.160126
2021-06-29 00:00:00	71.884071	154.233688	76.220718	31.081369	142.063461
2021-06-30 00:00:00	71.107780	152.789764	75.966965	31.051580	143.252640
2021-07-02 00:00:00	72.078148	157.981964	79.851196	32.352428	143.968094
2021-07-06 00:00:00	72.902946	158.347900	81.080894	30.296890	144.180786
2021-07-07 00:00:00	73.097023	158.397339	84.018456	29.274082	144.818878
2021-07-08 00:00:00	72.902946	158.862167	83.530479	29.452824	144.886551
2021-07-09 00:00:00	72.767090	159.228134	85.648270	30.028772	144.519165
2021-07-12 00:00:00	72.864128	160.039093	84.984634	29.780519	144.548157
2021-07-13 00:00:00	72.640953	159.811600	84.974876	29.869892	147.883698
2021-07-14 00:00:00	73.456039	159.762177	86.473572	27.635609	149.411240
2021-07-15 00:00:00	74.542847	159.910507	84.475311	27.039797	150.097672
2021-07-16 00:00:00	75.610237	158.090775	85.699730	25.758810	150.648773
2021-07-19 00:00:00	74.707809	156.132538	85.200172	24.646635	150.629425
2021-07-20 00:00:00	74.882469	157.981964	86.845802	25.192791	150.648773
2021-07-21 00:00:00	73.630707	159.307236	87.854721	26.990147	150.088013
2021-07-22 00:00:00	73.863602	161.878616	88.834267	26.821333	150.039673
2021-07-23 00:00:00	74.911575	164.529129	85.895653	26.394341	151.963623
2021-07-26 00:00:00	74.630188	163.273087	86.062172	26.930567	151.857285
2021-07-27 00:00:00	75.552010	162.758835	86.003395	26.076572	152.698395
2021-07-28 00:00:00	75.542320	163.639038	85.396088	26.712101	151.296539
2021-07-29 00:00:00	75.843132	165.152176	85.836861	26.592943	151.605881
2021-07-30 00:00:00	75.590836	165.666458	85.356903	25.917694	151.741272
2021-08-03 00:00:00	77.065773	169.345535	87.903687	26.245388	151.470551
2021-08-04 00:00:00	77.502441	170.018051	88.207352	25.510555	148.937515
2021-08-05 00:00:00	78.104057	171.936707	87.600037	26.007065	149.188889
2021-08-06 00:00:00	78.220497	170.898239	87.688194	26.205666	149.208221
2021-08-09 00:00:00	78.171997	169.879578	88.060432	25.431118	149.227539
2021-08-10 00:00:00	78.142883	170.374084	87.805748	26.076572	149.304886
2021-08-11 00:00:00	79.928337	169.385086	87.795929	26.652523	149.894653
2021-08-12 00:00:00	80.539658	168.762009	87.972275	26.682316	149.923660
2021-08-13 00:00:00	80.976318	169.800461	88.530594	25.609859	151.325531
2021-08-16 00:00:00	81.461494	170.463089	88.961601	24.616842	152.804749
2021-08-17 00:00:00	81.471199	168.781799	89.088936	23.911802	152.659714
2021-08-18 00:00:00	81.917564	166.952164	87.120071	23.286203	151.093506
2021-08-19 00:00:00	82.043709	163.767593	86.894768	21.935699	153.636215
2021-08-20 00:00:00	83.722427	165.943375	87.120071	21.796680	153.094788
2021-08-23 00:00:00	81.898163	167.852142	87.296387	23.306061	152.611404
2021-08-24 00:00:00	81.645859	168.109268	86.738052	24.209707	150.716431
2021-08-25 00:00:00	82.024307	167.970825	86.806610	24.457958	150.049332
2021-08-26 00:00:00	81.697739	165.082977	86.904564	23.832361	149.498260

2021-08-27 00:00:00	81.307823	166.009201	87.521683	25.480764	149.797974
2021-08-30 00:00:00	81.834213	166.454956	87.619621	25.073629	150.822784
2021-08-31 00:00:00	81.873207	163.195816	87.306183	25.510555	151.199860
2021-09-01 00:00:00	83.189178	163.017502	88.109390	24.904816	152.669418
2021-09-02 00:00:00	84.300461	162.135849	87.962471	26.394341	152.781342
2021-09-03 00:00:00	83.530373	161.759384	88.158371	25.738951	152.917618
2021-09-07 00:00:00	82.887001	161.115494	86.904564	25.480764	150.425629
2021-09-08 00:00:00	84.261459	159.203583	87.639229	24.736004	152.557465
2021-09-09 00:00:00	83.676582	161.808945	87.707779	24.904884	151.593765
2021-09-10 00:00:00	82.789513	162.056580	87.844933	24.815477	151.330933
2021-09-13 00:00:00	82.448334	158.024750	87.071091	26.474476	151.622955
2021-09-14 00:00:00	82.506828	157.271851	84.622246	26.106915	151.029175
2021-09-15 00:00:00	82.477585	156.429840	85.934837	27.696377	151.876038
2021-09-16 00:00:00	81.882965	156.122742	85.464653	27.149998	151.428253
2021-09-17 00:00:00	79.582436	154.953781	84.622246	26.762568	150.036240
2021-09-20 00:00:00	79.631180	152.804138	84.406754	25.312183	149.530045
2021-09-21 00:00:00	79.855370	153.566925	85.141403	25.262512	149.461929
2021-09-22 00:00:00	79.835884	155.964249	86.630295	26.573818	149.919418
2021-09-23 00:00:00	79.221756	158.084167	87.590248	27.775848	150.036240
2021-09-24 00:00:00	78.666122	148.187805	88.099609	27.914927	150.104385
2021-09-27 00:00:00	76.775024	146.652344	89.177101	29.991163	148.663696
2021-09-28 00:00:00	75.322563	143.938034	88.638344	29.703074	147.038055
2021-09-29 00:00:00	76.375351	144.651291	89.382797	29.832218	148.254868
2021-09-30 00:00:00	76.541061	143.868698	85.347099	29.385180	146.415054
2021-10-01 00:00:00	77.213676	145.681519	87.903687	30.944839	146.940704
2021-10-04 00:00:00	77.359901	145.760773	87.433517	31.600492	146.210617
2021-10-05 00:00:00	77.476875	148.059036	89.617874	32.554173	147.076996
2021-10-06 00:00:00	79.134026	147.405228	89.470955	31.789242	150.844208
2021-10-07 00:00:00	78.880585	150.426620	90.421104	32.266079	152.236221
2021-10-08 00:00:00	78.188477	151.050735	92.780182	33.408512	151.885788
2021-10-12 00:00:00	76.882248	151.912582	93.940056	32.792587	152.761871
2021-10-13 00:00:00	78.168983	154.834930	94.755898	32.067398	153.793732
2021-10-14 00:00:00	79.406982	155.667038	93.654999	31.779310	155.029984
2021-10-15 00:00:00	79.611671	156.528900	93.704147	31.451483	154.591949
2021-10-18 00:00:00	78.948814	157.935562	94.864029	32.713116	153.891068
2021-10-19 00:00:00	79.962608	156.340683	95.404648	32.723053	155.847702
2021-10-20 00:00:00	81.804962	156.964767	94.991806	33.140285	157.025543
2021-10-21 00:00:00	81.697739	160.659790	94.657600	32.583973	154.952103
2021-10-22 00:00:00	82.292366	161.947601	96.574341	33.706532	155.721146
2021-10-25 00:00:00	82.165634	162.680679	96.220490	34.988033	154.991043
2021-10-26 00:00:00	83.315910	162.254700	95.326004	35.127110	156.889267
2021-10-27 00:00:00	82.867508	160.828217	94.392204	33.080681	156.344131
2021-10-28 00:00:00	84.241966	162.918442	94.588806	33.607189	157.327301
2021-10-29 00:00:00	83.179436	165.721909	94.303749	33.309162	157.307846
2021-11-01 00:00:00	83.432884	164.770905	92.770340	34.580738	156.976883
2021-11-02 00:00:00	83.267174	166.256866	94.234932	34.133701	158.417572
2021-11-03 00:00:00	83.091698	170.883072	94.510155	33.627056	159.936127
2021-11-04 00:00:00	82.623810	173.795517	93.999031	33.527718	159.945862

2021-11-05 00:00:00	83.374397	175.846100	93.330627	33.199894	161.590973
2021-11-08 00:00:00	82.458092	170.239166	93.517387	34.064163	158.115784
2021-11-09 00:00:00	82.799263	172.190704	92.976761	33.517780	159.167099
2021-11-10 00:00:00	83.052711	166.682816	92.229729	31.610428	159.683014
2021-11-11 00:00:00	83.218437	165.404907	92.436142	31.908451	158.368896
2021-11-12 00:00:00	84.134743	167.505035	91.944664	31.868715	158.329941
2021-11-15 00:00:00	85.138779	167.267288	92.416489	31.769373	159.449417
2021-11-16 00:00:00	84.787857	170.219360	93.979370	31.630297	158.972427
2021-11-17 00:00:00	85.567688	170.130188	93.704147	30.557407	159.030823
2021-11-18 00:00:00	85.392227	169.743851	93.045570	30.438200	159.079498
2021-11-19 00:00:00	86.084335	173.240753	92.367348	28.928209	159.459137
2021-11-22 00:00:00	85.158272	172.606766	92.996429	29.812347	159.790115
2021-11-23 00:00:00	85.109535	170.536362	91.354912	31.709766	160.860901
2021-11-24 00:00:00	85.388580	170.417465	91.983986	31.799173	159.391006
2021-11-26 00:00:00	84.291969	166.445068	90.755302	29.504391	156.860046
2021-11-29 00:00:00	86.808296	168.277725	91.354912	29.862019	159.780380
2021-11-30 00:00:00	84.967552	167.653625	89.192429	29.454720	155.536194
2021-12-01 00:00:00	86.005424	165.137436	88.219307	28.759329	155.906097
2021-12-02 00:00:00	86.769135	168.406494	88.455223	29.454720	157.410416
2021-12-03 00:00:00	86.191444	168.947357	86.735062	28.967947	161.418686
2021-12-06 00:00:00	87.288063	167.627457	87.423134	29.643469	163.094513
2021-12-07 00:00:00	88.521751	169.989380	88.514198	30.915039	162.908295
2021-12-08 00:00:00	88.433624	168.957306	87.423134	30.567347	163.192520
2021-12-09 00:00:00	88.032196	166.823624	87.256020	30.050600	162.986694
2021-12-10 00:00:00	88.394463	167.776321	100.879646	30.577282	165.593567
2021-12-13 00:00:00	89.823975	165.573196	99.169319	29.046925	166.416779
2021-12-14 00:00:00	88.149673	164.144104	98.186371	28.559994	166.005157
2021-12-15 00:00:00	90.078537	162.655487	101.882248	28.341373	168.141602
2021-12-16 00:00:00	90.303741	161.484467	101.459579	28.202248	168.386627
2021-12-17 00:00:00	89.040680	160.134796	94.972145	27.864378	164.936966
2021-12-20 00:00:00	88.061569	155.788040	90.077080	26.811018	166.034576
2021-12-21 00:00:00	88.560913	165.364777	89.949295	28.420872	165.544556
2021-12-22 00:00:00	88.903603	164.183807	88.327438	28.738865	166.573578
2021-12-23 00:00:00	88.805687	164.412048	88.189835	28.669306	166.387375
2021-12-29 00:00:00	90.068741	167.498444	86.705574	29.076736	169.513641
2021-12-30 00:00:00	90.832451	166.218262	86.508995	28.788551	169.219635
2021-12-31 00:00:00	91.410133	165.404480	85.722626	28.808428	170.238846
2022-01-04 00:00:00	88.786110	165.126587	87.324829	33.170937	169.768433
2022-01-05 00:00:00	87.855957	161.018036	84.985428	31.610764	170.346649
2022-01-06 00:00:00	83.978653	159.817200	85.182747	32.554817	170.385834
2022-01-07 00:00:00	84.605286	155.778122	86.337059	33.001995	170.601456
2022-01-10 00:00:00	82.529556	149.297699	88.083336	32.177197	170.689651
2022-01-11 00:00:00	83.019127	149.158768	87.294067	34.482662	170.611252
2022-01-12 00:00:00	83.312851	151.054276	87.126335	34.532352	170.425049
2022-01-13 00:00:00	83.126823	148.454147	86.613312	33.936111	170.699448
2022-01-14 00:00:00	81.462334	147.054855	86.514648	35.287590	172.130280
2022-01-18 00:00:00	79.553055	145.834198	84.403328	35.804333	170.483871
2022-01-19 00:00:00	80.865074	144.008179	82.262413	35.605587	171.708878

2022-01-20 00:00:00	81.765869	141.646240	81.611267	34.731102	170.464249
2022-01-21 00:00:00	80.874855	141.864578	81.117966	33.538612	170.738663
2022-01-24 00:00:00	80.209061	144.891403	81.315285	33.796982	169.866440
2022-01-25 00:00:00	73.531502	144.375366	79.983376	36.539703	167.916214
2022-01-26 00:00:00	71.122887	142.896698	78.523209	36.827885	166.142380
2022-01-27 00:00:00	70.995598	143.541748	78.710670	37.026630	165.985565
2022-01-28 00:00:00	70.985802	144.802109	79.401299	37.334694	169.219635
2022-01-31 00:00:00	76.488434	146.945709	80.072182	37.434059	170.052643
2022-02-01 00:00:00	75.617020	147.094574	79.953789	39.043915	168.896210
2022-02-02 00:00:00	76.106575	147.580856	81.394211	39.371849	171.963684
2022-02-03 00:00:00	74.187508	144.206665	80.841721	39.749470	171.865677
2022-02-04 00:00:00	74.422501	144.286057	81.009438	40.544460	169.043243
2022-02-07 00:00:00	74.099388	144.037949	79.657799	40.743206	168.376801
2022-02-08 00:00:00	73.883980	142.440170	79.707138	39.103542	168.582611
2022-02-09 00:00:00	75.058922	145.149445	82.331474	40.047592	168.504211
2022-02-10 00:00:00	73.874184	143.720398	80.752922	40.425209	165.005539
2022-02-11 00:00:00	73.394424	139.115601	78.681076	42.710804	165.211349
2022-02-14 00:00:00	73.355263	140.514908	77.891792	40.971767	163.368927
2022-02-15 00:00:00	73.521706	144.474609	78.700798	39.600407	162.643707
2022-02-16 00:00:00	73.658798	145.377701	78.128586	39.401661	162.976929
2022-02-17 00:00:00	73.805656	141.715714	74.517632	39.610348	163.417923
2022-02-18 00:00:00	72.601349	141.864578	73.570503	39.312225	164.358749
2022-02-22 00:00:00	72.239075	137.140717	73.126534	38.079990	164.985962
2022-02-23 00:00:00	70.809563	135.791046	71.498650	38.447674	163.359131
2022-02-24 00:00:00	73.864403	136.128464	73.807289	38.676235	160.517075
2022-02-25 00:00:00	75.548485	137.746094	75.326637	38.497360	165.015366
2022-02-28 00:00:00	77.059738	135.513184	74.951736	43.456108	160.468079
2022-03-01 00:00:00	76.242577	131.216049	74.991203	46.496941	159.027451
2022-03-02 00:00:00	76.350883	134.649765	77.230774	48.067043	161.232468
2022-03-03 00:00:00	77.571701	132.952759	77.201180	47.450932	161.059845
2022-03-04 00:00:00	78.969742	130.481003	75.464767	55.798321	163.506271
2022-03-07 00:00:00	82.878357	123.776924	73.323853	55.033146	160.250946
2022-03-08 00:00:00	80.682838	120.564133	72.347130	54.258026	155.732956
2022-03-09 00:00:00	79.078049	126.273544	75.079994	57.276234	155.269302
2022-03-10 00:00:00	78.920525	125.358452	75.622627	57.903786	152.418427
2022-03-11 00:00:00	78.073814	121.976562	76.776939	57.724483	151.648987
2022-03-14 00:00:00	78.054131	116.943527	76.036995	55.373669	153.779755
2022-03-15 00:00:00	80.712379	118.763779	79.519676	54.317791	156.847641
2022-03-16 00:00:00	81.234184	124.522926	78.888252	52.783787	157.538177
2022-03-17 00:00:00	81.411400	126.731094	79.519676	57.784248	158.761398
2022-03-18 00:00:00	81.096352	130.540695	80.585205	56.021141	160.586334
2022-03-21 00:00:00	80.535164	129.496292	79.874855	60.722767	160.359467
2022-03-22 00:00:00	81.568924	132.380829	80.703598	59.407909	162.115356
2022-03-23 00:00:00	81.293251	132.291306	79.312500	59.607128	161.266998
2022-03-24 00:00:00	82.405777	131.376205	81.137695	57.525265	162.243607
2022-03-25 00:00:00	82.642075	132.987579	80.634537	58.481525	163.003189
2022-03-28 00:00:00	83.124496	134.091675	82.479462	56.419582	163.486542
2022-03-29 00:00:00	83.311562	138.398590	83.160225	56.569000	165.913254

2022-03-30 00:00:00	84.177948	137.801788	82.242691	57.256313	165.686356
2022-03-31 00:00:00	83.400169	133.843002	81.621132	56.519196	165.114212
2022-04-01 00:00:00	84.384697	132.808548	80.910782	57.883865	167.461990
2022-04-04 00:00:00	84.296097	133.624161	82.943161	57.565105	167.027954
2022-04-05 00:00:00	84.995117	131.595047	81.828316	55.503162	167.205521
2022-04-06 00:00:00	85.152634	127.676033	81.019310	55.881683	170.056381
2022-04-07 00:00:00	85.733521	128.690613	80.761787	57.455536	170.214233
2022-04-08 00:00:00	84.758820	127.467148	80.167511	61.559502	170.786392
2022-04-11 00:00:00	83.272171	124.314049	78.998779	57.694599	170.263565
2022-04-12 00:00:00	82.592834	124.373726	78.572876	58.909851	170.954071
2022-04-13 00:00:00	82.258095	126.810661	78.988869	59.387985	170.658142
2022-04-14 00:00:00	81.529541	132.748871	78.691734	59.109077	169.573029
2022-04-18 00:00:00	80.446548	130.928619	77.473473	61.131172	168.113052
2022-04-19 00:00:00	80.564697	136.319733	78.800682	60.145027	170.559479
2022-04-20 00:00:00	80.249649	135.146011	79.523720	61.230785	173.094711
2022-04-21 00:00:00	75.002068	134.738220	78.721451	58.969624	172.473236
2022-04-22 00:00:00	72.806541	128.382263	75.482658	56.399662	169.819626
2022-04-25 00:00:00	72.895149	127.258278	76.245316	54.706272	171.388123
2022-04-26 00:00:00	72.432419	119.877808	73.798882	54.606667	170.954071
2022-04-27 00:00:00	72.137047	120.593971	74.046501	55.373669	172.483093
2022-04-28 00:00:00	72.353653	126.373024	75.413322	56.808064	175.097229
2022-04-29 00:00:00	69.921844	124.035538	72.699471	54.875614	169.385605
2022-05-02 00:00:00	68.789635	125.408188	73.293747	58.073120	165.489059
2022-05-03 00:00:00	69.665863	122.205345	72.590523	59.009468	165.715958
2022-05-04 00:00:00	71.930298	125.388283	74.492195	61.330399	171.506485
2022-05-05 00:00:00	70.729164	117.997879	72.105209	62.047596	168.083466
2022-05-06 00:00:00	71.349426	113.879944	71.798157	64.687286	168.103210
2022-05-09 00:00:00	69.616638	110.617416	70.857224	57.614914	169.375732
2022-05-10 00:00:00	68.907768	108.906586	71.837776	59.178802	169.168579
2022-05-11 00:00:00	69.114517	107.344948	70.352089	59.866116	168.349808
2022-05-12 00:00:00	67.450661	107.325058	70.054962	58.989544	168.093323
2022-05-13 00:00:00	68.720711	112.407829	70.490753	63.830631	171.368393
2022-05-16 00:00:00	69.035767	112.000008	69.044693	67.456459	173.094711
2022-05-17 00:00:00	70.906380	115.282425	71.193977	67.675606	172.098389
2022-05-18 00:00:00	69.902153	108.787224	67.648148	64.049774	161.434708
2022-05-19 00:00:00	69.370506	105.872841	66.400177	63.711094	159.017868
2022-05-20 00:00:00	70.118752	107.424522	67.974998	63.013817	160.014206
2022-05-24 00:00:00	73.515404	106.718307	68.371185	64.816772	165.548264
2022-05-25 00:00:00	73.633553	107.623451	69.163544	66.131638	166.682693
2022-05-26 00:00:00	73.879684	112.338203	70.976089	68.392815	167.807266
2022-05-27 00:00:00	76.666946	115.371948	72.085388	70.584244	169.444794
2022-05-31 00:00:00	74.944099	118.216705	71.233597	69.040276	165.479202
2022-06-01 00:00:00	75.419357	118.047615	70.916649	70.145950	164.236267
2022-06-02 00:00:00	77.746193	122.752411	72.441956	69.030319	165.567307
2022-06-03 00:00:00	77.914528	120.603584	71.104843	70.016464	163.749542
2022-06-06 00:00:00	79.399750	119.885651	72.273582	69.339111	164.434921
2022-06-07 00:00:00	78.993782	121.321518	71.996254	70.275452	165.448120
2022-06-08 00:00:00	77.716492	122.049431	70.698746	68.761368	164.623657

2022-06-09 00:00:00	76.577827	118.260315	68.559364	65.048851	161.693359
2022-06-10 00:00:00	75.161926	114.401405	66.499222	63.741489	161.435089
2022-06-13 00:00:00	71.696419	110.123688	63.438713	59.709618	158.673660
2022-06-14 00:00:00	70.775581	110.402885	70.045052	61.965069	155.077805
2022-06-15 00:00:00	73.458870	113.115097	69.034790	60.158710	156.736664
2022-06-16 00:00:00	70.171600	106.813194	68.054230	56.695694	155.981735
2022-06-17 00:00:00	70.112183	107.032562	67.073685	55.567966	156.011536
2022-06-21 00:00:00	72.013268	108.368729	67.034065	57.753559	159.637177
2022-06-22 00:00:00	73.953949	104.619492	65.895042	55.657787	160.948364
2022-06-23 00:00:00	76.439201	107.690674	66.984535	55.977142	163.004547
2022-06-24 00:00:00	77.251129	112.586617	70.025238	57.404266	165.020996
2022-06-27 00:00:00	77.122414	110.183517	69.738014	58.781490	165.239532
2022-06-28 00:00:00	75.686699	102.485626	67.925476	61.585835	162.915146
2022-06-29 00:00:00	75.251030	102.954277	68.549461	58.981087	165.616989
2022-06-30 00:00:00	76.696648	101.907280	69.203171	58.761532	165.547455
2022-07-05 00:00:00	78.330391	104.021217	71.302933	58.991066	167.881760
2022-07-06 00:00:00	78.785851	103.931473	70.976089	58.991066	169.560486
2022-07-07 00:00:00	79.587875	107.820297	71.144463	61.346317	169.222748
2022-07-08 00:00:00	79.459152	107.620872	71.184082	60.547924	170.732620
2022-07-11 00:00:00	79.884918	104.808952	71.203972	59.400242	169.332016
2022-07-12 00:00:00	79.162109	103.462822	70.049911	57.254566	168.368500
2022-07-13 00:00:00	79.469063	104.808952	69.671844	57.893276	168.964493
2022-07-14 00:00:00	79.340332	102.924370	69.094810	57.114849	169.838608
2022-07-15 00:00:00	77.934326	104.400124	70.378212	58.591869	169.977676
2022-07-18 00:00:00	76.746155	103.642303	69.850929	59.929173	167.136765
2022-07-19 00:00:00	78.152161	108.877266	71.870544	62.693600	168.924759
2022-07-20 00:00:00	77.548172	110.791771	72.218750	63.422131	167.136765
2022-07-21 00:00:00	78.092758	111.300308	74.158783	61.875252	167.385101
2022-07-22 00:00:00	79.459152	108.807472	74.516945	60.937145	168.477768
2022-07-25 00:00:00	80.181961	108.967010	74.477150	64.280403	168.716171
2022-07-26 00:00:00	79.122505	104.898689	73.651390	61.945110	170.682938
2022-07-27 00:00:00	79.587875	107.551079	75.481987	62.653679	170.444534
2022-07-28 00:00:00	83.706879	111.908562	76.645996	62.513962	173.672852
2022-07-29 00:00:00	83.657372	114.590851	77.441902	65.617706	173.792053
2022-08-02 00:00:00	84.825737	111.449875	75.959526	64.929092	174.318512
2022-08-03 00:00:00	85.607956	113.952690	76.974312	60.867287	175.649567
2022-08-04 00:00:00	87.112976	114.152115	77.004158	57.344387	174.695969
2022-08-05 00:00:00	87.112976	113.543861	76.954414	58.891266	173.384781
2022-08-08 00:00:00	86.657509	113.673492	76.078911	59.919197	172.689468
2022-08-09 00:00:00	88.043709	109.794632	76.377373	62.284428	173.335114
2022-08-10 00:00:00	88.895233	112.815956	77.143440	62.733521	174.765503
2022-08-11 00:00:00	88.548691	113.773201	76.765388	65.557831	173.871506
2022-08-12 00:00:00	89.578438	115.737564	78.745209	65.597748	176.146225
2022-08-15 00:00:00	90.103218	115.986847	78.705414	64.210541	178.083206
2022-08-16 00:00:00	89.637848	117.721863	79.113312	63.382210	179.116272
2022-08-17 00:00:00	89.311096	116.704781	78.844696	62.843300	179.016937
2022-08-18 00:00:00	89.350700	115.677734	78.914337	64.749451	179.195724
2022-08-19 00:00:00	88.825928	112.835899	78.257713	71.146561	178.967270

2022-08-22 00:00:00	87.667458	110.023972	76.068962	68.891106	177.258743
2022-08-23 00:00:00	87.112976	110.362999	76.019226	73.641533	177.179276
2022-08-24 00:00:00	87.835777	111.090912	75.780449	74.759277	178.063339
2022-08-25 00:00:00	88.509079	112.895729	76.496765	74.330147	178.073273
2022-08-26 00:00:00	87.192184	107.969872	74.268219	73.402016	173.871506
2022-08-29 00:00:00	86.580292	107.571014	73.810577	75.108574	173.325195
2022-08-30 00:00:00	85.266960	107.551079	73.760826	71.865112	171.835205
2022-08-31 00:00:00	84.630196	106.145111	73.770782	70.857140	171.120010
2022-09-01 00:00:00	85.824135	106.184998	74.914902	68.262375	172.850006
2022-09-02 00:00:00	84.679947	105.739998	74.298065	68.631630	170.660004
2022-09-06 00:00:00	86.928528	105.150002	73.452415	66.745430	169.509995
2022-09-07 00:00:00	89.784019	108.480003	74.109039	65.298347	173.250000
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2022-09-09 00:00:00	89.445747	110.970001	75.521782	65.610001	173.220001
2022-09-12 00:00:00	90.351143	112.379997	76.685799	66.800003	173.899994
2022-09-13 00:00:00	88.410995	105.720001	75.651115	65.339996	167.410004
2022-09-14 00:00:00	88.430893	107.000000	71.751160	67.199997	168.679993
2022-09-15 00:00:00	85.575401	105.500000	69.880775	65.089996	165.880005
2022-09-16 00:00:00	84.361565	104.120003	68.477989	64.410004	166.970001
2022-09-19 00:00:00	86.401199	107.209999	68.716759	64.680000	168.729996
2022-09-20 00:00:00	85.257019	102.419998	67.761665	64.279999	168.919998
2022-09-21 00:00:00	83.545708	99.790001	66.408623	62.680000	168.440002
2022-09-22 00:00:00	83.117882	98.550003	65.692307	61.880001	168.600006
2022-09-23 00:00:00	82.103027	97.019997	64.219879	58.730000	168.520004
2022-09-26 00:00:00	80.739960	96.059998	63.125500	57.880001	168.449997
2022-09-27 00:00:00	80.670311	96.290001	62.100765	58.529999	166.009995
2022-09-28 00:00:00	81.953796	98.699997	62.747444	61.410000	168.669998
2022-09-29 00:00:00	79.565918	95.330002	61.085987	62.110001	166.610001
2022-09-30 00:00:00	78.013802	83.120003	60.757671	61.450001	163.259995
2022-10-03 00:00:00	80.779755	85.400002	62.757393	64.059998	165.250000
2022-10-04 00:00:00	82.401520	88.639999	65.354050	66.169998	167.110001
2022-10-05 00:00:00	81.356819	91.099998	66.299187	67.739998	166.000000
2022-10-06 00:00:00	78.511276	90.169998	64.966042	70.500000	162.800003
2022-10-07 00:00:00	76.342293	87.160004	62.966320	69.800003	161.610001
2022-10-11 00:00:00	75.645828	87.989998	62.410000	64.029999	162.589996
2022-10-12 00:00:00	72.382401	88.510002	63.779999	65.110001	169.389999
2022-10-13 00:00:00	72.720680	89.559998	65.199997	68.000000	174.610001
2022-10-14 00:00:00	71.407349	87.550003	64.309998	66.680000	170.190002
2022-10-17 00:00:00	73.277855	89.970001	67.019997	67.360001	172.729996
2022-10-18 00:00:00	74.680725	89.680000	67.029999	67.779999	175.059998
2022-10-19 00:00:00	73.267899	88.570000	66.300003	68.459999	173.360001
2022-10-20 00:00:00	70.283058	86.830002	69.250000	68.849998	171.460007
2022-10-21 00:00:00	71.287956	88.500000	72.699997	71.260002	173.059998
2022-10-24 00:00:00	72.909721	88.010002	72.919998	70.830002	177.679993
2022-10-25 00:00:00	75.476685	91.720001	73.139999	71.089996	178.270004
2022-10-26 00:00:00	75.217995	92.389999	74.820000	72.519997	179.070007
2022-10-27 00:00:00	75.088654	90.540001	75.150002	71.870003	178.880005
2022-10-28 00:00:00	78.630669	93.830002	77.360001	71.839996	182.229996

2022-10-31 00:00:00	77.108398	92.680000	78.070000	72.599998	181.580002
2022-11-01 00:00:00	77.317337	93.769997	77.110001	73.800003	180.759995
2022-11-02 00:00:00	76.889511	90.300003	75.120003	71.099998	178.240005
2022-11-03 00:00:00	77.784966	90.400002	75.029999	72.160004	177.779999
2022-11-04 00:00:00	78.401833	95.790001	76.000000	73.269997	178.779999
2022-11-07 00:00:00	76.899460	93.440002	76.739998	75.970001	180.210007
2022-11-08 00:00:00	77.874504	93.750000	75.639999	74.830002	180.710007
2022-11-09 00:00:00	77.804855	92.099998	75.660004	67.930000	178.550003
2022-11-10 00:00:00	82.779594	99.489998	77.169998	70.480003	181.699997
2022-11-11 00:00:00	82.889038	106.089996	77.739998	74.330002	178.050003
2022-11-14 00:00:00	81.247383	104.389999	78.529999	73.279999	176.729996
2022-11-15 00:00:00	82.491066	106.709999	79.180000	74.430000	177.190002
2022-11-16 00:00:00	83.893936	105.230003	79.889999	71.930000	178.330002
2022-11-17 00:00:00	81.933891	105.360001	79.199997	71.459999	180.029999
2022-11-18 00:00:00	82.779594	105.419998	79.730003	71.250000	181.330002
2022-11-21 00:00:00	83.177574	103.830002	79.820000	69.589996	184.820007
2022-11-22 00:00:00	83.684998	105.970001	82.120003	72.769997	184.839996
2022-11-23 00:00:00	84.919998	106.650002	82.559998	71.120003	185.080002

Date	PFE	PG	PM	PYPL \
2021-03-16 00:00:00	33.759575	123.469925	80.504585	249.309998
2021-03-17 00:00:00	33.721897	122.971985	81.417343	251.470001
2021-03-18 00:00:00	33.703045	123.240097	82.658684	238.410004
2021-03-19 00:00:00	33.476917	122.579384	82.556946	241.279999
2021-03-22 00:00:00	33.919754	124.657318	83.232208	244.384995
2021-03-23 00:00:00	33.316738	126.974670	81.446930	243.770004
2021-03-24 00:00:00	33.552299	126.936333	81.909439	234.270004
2021-03-25 00:00:00	33.608826	127.817329	82.038940	234.240005
2021-03-26 00:00:00	34.155315	129.703720	83.787193	241.029999
2021-03-29 00:00:00	34.503937	131.733841	84.166443	235.669998
2021-03-30 00:00:00	34.023403	129.703720	82.649437	236.539993
2021-03-31 00:00:00	34.136463	129.684586	82.085182	242.839996
2021-04-01 00:00:00	34.202423	128.583405	81.456177	247.539993
2021-04-05 00:00:00	34.183578	130.661316	81.955681	251.020004
2021-04-06 00:00:00	33.966866	130.709213	81.983421	253.190002
2021-04-07 00:00:00	33.834957	130.939026	81.659683	255.600006
2021-04-08 00:00:00	33.882069	131.436966	82.732697	264.500000
2021-04-09 00:00:00	34.485085	130.584732	84.240448	266.769989
2021-04-12 00:00:00	34.833710	131.111374	84.536453	269.029999
2021-04-13 00:00:00	35.012733	129.378159	83.972191	275.429993
2021-04-14 00:00:00	35.022152	129.847382	84.240448	267.209991
2021-04-15 00:00:00	35.427299	131.417816	84.943466	274.000000
2021-04-16 00:00:00	36.341255	131.427383	85.942467	269.869995
2021-04-19 00:00:00	36.680454	130.814529	84.795448	267.910004
2021-04-20 00:00:00	36.774673	131.906174	86.950722	264.429993
2021-04-21 00:00:00	37.245777	131.044373	87.126480	264.890015
2021-04-22 00:00:00	36.407211	129.743347	86.959984	262.269989

2021-04-23 00:00:00	36.426048	129.078400	87.514977	266.029999
2021-04-26 00:00:00	36.444893	126.495674	87.311478	271.720001
2021-04-27 00:00:00	36.228188	126.418564	87.422493	268.820007
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2021-04-29 00:00:00	36.369518	127.700310	87.958984	267.850006
2021-04-30 00:00:00	36.416630	128.577286	87.875732	262.290009
2021-05-03 00:00:00	37.528450	130.099899	88.661987	259.089996
2021-05-04 00:00:00	37.641506	129.656601	87.792480	250.160004
2021-05-05 00:00:00	37.660355	128.615845	88.282738	247.399994
2021-05-06 00:00:00	37.289268	130.234833	89.559258	252.020004
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2021-05-10 00:00:00	37.926773	132.673004	90.706253	243.630005
2021-05-11 00:00:00	37.441509	132.017700	89.994003	248.600006
2021-05-12 00:00:00	37.765018	130.620316	88.985741	239.910004
2021-05-13 00:00:00	38.155132	132.721207	90.234512	240.800003
2021-05-14 00:00:00	38.079014	133.000671	90.373245	246.289993
2021-05-17 00:00:00	38.164650	132.730835	90.234512	244.360001
2021-05-18 00:00:00	38.107559	131.372040	90.363998	243.210007
2021-05-19 00:00:00	37.898235	131.641830	89.087494	244.630005
2021-05-20 00:00:00	38.174168	132.991028	90.114250	251.539993
2021-05-21 00:00:00	38.012405	132.991028	90.114250	250.690002
2021-05-25 00:00:00	37.422482	133.405411	90.206749	258.649994
2021-05-26 00:00:00	37.032368	133.106689	90.012497	261.369995
2021-05-27 00:00:00	36.775463	130.080643	89.429749	259.470001
2021-05-28 00:00:00	36.851582	129.955353	89.198494	260.019989
2021-06-01 00:00:00	36.632732	128.056885	89.522255	259.269989
2021-06-02 00:00:00	36.908669	128.615845	89.549995	262.170013
2021-06-03 00:00:00	37.079941	130.919083	90.068001	257.790009
2021-06-04 00:00:00	37.251213	131.015442	90.558258	263.040009
2021-06-07 00:00:00	37.098972	131.468369	91.168762	260.600006
2021-06-08 00:00:00	36.965763	129.945709	89.170738	263.149994
2021-06-09 00:00:00	37.879204	129.897537	89.494499	263.600006
2021-06-10 00:00:00	38.707005	130.861221	90.234512	269.470001
2021-06-11 00:00:00	38.202713	129.965012	91.427765	271.450012
2021-06-14 00:00:00	37.707932	130.013199	92.963264	274.929993
2021-06-15 00:00:00	37.669872	129.762604	92.926277	271.890015
2021-06-16 00:00:00	37.393936	127.960495	92.426773	268.820007
2021-06-17 00:00:00	37.565205	129.126572	92.500771	278.109985
2021-06-18 00:00:00	36.927700	127.237724	92.038269	283.380005
2021-06-21 00:00:00	37.508110	128.239975	92.648781	283.100006
2021-06-22 00:00:00	37.688900	128.288162	92.500771	286.750000
2021-06-23 00:00:00	37.156055	128.105057	92.547028	288.119995
2021-06-24 00:00:00	37.289268	128.191803	92.715546	293.209991
2021-06-25 00:00:00	37.089455	130.022842	92.724907	289.600006
2021-06-28 00:00:00	37.222664	130.408325	92.378502	293.649994
2021-06-29 00:00:00	37.203632	129.521698	91.695045	292.760010
2021-06-30 00:00:00	37.260727	130.032455	92.790443	291.480011
2021-07-02 00:00:00	37.803078	130.967239	93.904572	290.239990

2021-07-06 00:00:00	37.384418	131.044357	92.359779	292.640015
2021-07-07 00:00:00	37.441509	132.027344	92.490852	297.130005
2021-07-08 00:00:00	37.346359	132.008057	92.097633	295.049988
2021-07-09 00:00:00	37.688900	132.056229	93.061951	300.209991
2021-07-12 00:00:00	37.831623	132.162247	92.266151	302.970001
2021-07-13 00:00:00	37.726959	131.998428	91.479721	301.190002
2021-07-14 00:00:00	38.012405	132.971741	93.211754	300.750000
2021-07-15 00:00:00	38.145622	134.108948	92.977692	296.510010
2021-07-16 00:00:00	38.393013	135.409927	92.593834	294.630005
2021-07-19 00:00:00	38.202713	135.342484	91.685677	294.850006
2021-07-20 00:00:00	39.059059	134.619705	88.876976	298.070007
2021-07-21 00:00:00	39.030518	134.147461	90.384315	301.769989
2021-07-22 00:00:00	39.458691	133.633514	91.039673	303.690002
2021-07-23 00:00:00	39.658512	135.563324	92.125717	308.529999
2021-07-26 00:00:00	39.782200	136.038528	92.724907	306.799988
2021-07-27 00:00:00	40.058132	136.591293	93.473892	300.480011
2021-07-28 00:00:00	41.342659	134.564468	92.631287	301.980011
2021-07-29 00:00:00	41.083431	135.262711	93.895203	283.170013
2021-07-30 00:00:00	41.102631	137.929565	93.707954	275.529999
2021-08-03 00:00:00	43.858166	139.597549	94.035645	273.500000
2021-08-04 00:00:00	43.387711	138.123505	93.146202	275.500000
2021-08-05 00:00:00	43.262901	138.191391	93.239830	280.670013
2021-08-06 00:00:00	43.272499	137.134354	92.884071	279.540009
2021-08-09 00:00:00	44.146202	137.881058	92.874702	278.149994
2021-08-10 00:00:00	46.268063	137.968353	93.586235	274.369995
2021-08-11 00:00:00	44.463043	138.307785	93.399002	276.410004
2021-08-12 00:00:00	45.355957	138.627777	93.633064	274.589996
2021-08-13 00:00:00	46.546501	139.296921	95.112305	274.910004
2021-08-16 00:00:00	46.959347	140.266693	95.861298	278.279999
2021-08-17 00:00:00	48.409126	140.499451	95.964287	271.100006
2021-08-18 00:00:00	47.343399	138.967224	94.513115	268.839996
2021-08-19 00:00:00	46.853733	140.606110	94.953148	270.579987
2021-08-20 00:00:00	46.776928	140.703079	94.953148	272.959991
2021-08-23 00:00:00	47.938671	139.985474	94.419487	276.980011
2021-08-24 00:00:00	46.450489	138.850830	94.213531	279.510010
2021-08-25 00:00:00	45.615185	138.356247	94.784622	277.690002
2021-08-26 00:00:00	45.490372	138.113815	94.793991	273.619995
2021-08-27 00:00:00	44.741474	138.007141	95.589798	278.329987
2021-08-30 00:00:00	44.895092	138.608383	96.497940	288.470001
2021-08-31 00:00:00	44.232613	138.084732	96.432404	288.660004
2021-09-01 00:00:00	44.203812	139.490891	96.956703	286.750000
2021-09-02 00:00:00	44.971905	139.597549	98.904076	285.529999
2021-09-03 00:00:00	44.971905	139.694550	99.334740	289.130005
2021-09-07 00:00:00	44.885490	139.170853	99.297287	293.260010
2021-09-08 00:00:00	44.655064	140.227921	97.069054	285.230011
2021-09-09 00:00:00	44.194206	139.636337	96.039185	286.880005
2021-09-10 00:00:00	43.771755	139.772110	96.966049	284.320007
2021-09-13 00:00:00	42.802036	141.275238	96.048538	280.489990

2021-09-14 00:00:00	42.926853	141.032822	95.458717	282.239990
2021-09-15 00:00:00	42.984459	140.732193	97.368645	282.429993
2021-09-16 00:00:00	42.696426	139.752716	96.273247	282.970001
2021-09-17 00:00:00	42.139561	139.975754	95.365097	276.339996
2021-09-20 00:00:00	42.437195	138.569595	94.550583	269.910004
2021-09-21 00:00:00	42.168358	138.782959	94.101181	269.489990
2021-09-22 00:00:00	42.197163	139.258133	94.101181	272.339996
2021-09-23 00:00:00	42.427593	139.830322	94.981239	279.100006
2021-09-24 00:00:00	42.187561	139.209656	95.327644	278.109985
2021-09-27 00:00:00	41.832321	137.376785	95.973648	273.390015
2021-09-28 00:00:00	41.323460	136.339142	93.281906	262.190002
2021-09-29 00:00:00	41.793911	137.725906	94.296043	259.000000
2021-09-30 00:00:00	41.294651	135.573044	89.841431	260.209991
2021-10-01 00:00:00	41.217846	135.359695	91.064079	264.649994
2021-10-04 00:00:00	40.728184	134.593567	91.168327	255.009995
2021-10-05 00:00:00	40.632175	135.117264	91.357895	260.149994
2021-10-06 00:00:00	40.344139	136.921005	91.594841	264.059998
2021-10-07 00:00:00	41.035423	138.016846	90.656517	263.540009
2021-10-08 00:00:00	40.756992	137.444687	90.372185	260.059998
2021-10-12 00:00:00	40.180920	137.813187	90.590172	255.850006
2021-10-13 00:00:00	39.768066	138.133209	92.381508	256.359985
2021-10-14 00:00:00	40.008091	139.694550	93.689461	266.450012
2021-10-15 00:00:00	39.835281	140.053360	93.234528	268.350006
2021-10-18 00:00:00	39.672058	138.036224	92.362549	270.329987
2021-10-19 00:00:00	40.411346	136.407028	90.789223	271.700012
2021-10-20 00:00:00	41.093029	136.940414	91.955009	258.359985
2021-10-21 00:00:00	41.150639	135.954880	91.481102	243.210007
2021-10-22 00:00:00	41.438671	137.418518	91.822304	240.399994
2021-10-25 00:00:00	41.429070	137.438049	91.500061	246.880005
2021-10-26 00:00:00	41.822723	139.389603	91.177811	243.000000
2021-10-27 00:00:00	41.256252	138.394302	89.917252	234.940002
2021-10-28 00:00:00	41.457874	139.223709	90.959816	236.830002
2021-10-29 00:00:00	41.995541	139.526215	89.604469	232.589996
2021-11-01 00:00:00	41.899529	139.184692	88.542938	231.279999
2021-11-02 00:00:00	43.637341	140.570297	89.111618	229.460007
2021-11-03 00:00:00	43.032467	141.536301	89.784554	230.380005
2021-11-04 00:00:00	42.470707	141.799774	88.827286	228.220001
2021-11-05 00:00:00	47.080986	142.502319	89.376991	225.779999
2021-11-08 00:00:00	46.809792	141.438736	88.040604	229.419998
2021-11-09 00:00:00	45.812187	141.868073	88.779884	205.419998
2021-11-10 00:00:00	47.478092	143.263428	89.452827	204.639999
2021-11-11 00:00:00	48.601601	142.853592	90.040451	202.029999
2021-11-12 00:00:00	48.165752	143.009735	89.812981	208.300003
2021-11-15 00:00:00	48.088272	143.829376	90.381668	212.539993
2021-11-16 00:00:00	48.039841	143.624481	88.211212	215.669998
2021-11-17 00:00:00	49.269897	143.536652	88.704063	206.270004
2021-11-18 00:00:00	49.792912	143.556152	86.770569	200.500000
2021-11-19 00:00:00	49.202099	143.263428	85.680611	193.610001

2021-11-22 00:00:00	49.589516	144.219696	85.092972	189.479996
2021-11-23 00:00:00	49.473289	145.819977	84.969757	188.050003
2021-11-24 00:00:00	49.289268	145.058838	85.329910	188.710007
2021-11-26 00:00:00	52.301449	143.897675	84.050392	187.789993
2021-11-29 00:00:00	50.751774	145.410126	82.789825	187.240005
2021-11-30 00:00:00	52.039940	141.077698	81.453445	184.889999
2021-12-01 00:00:00	52.960056	142.853592	82.334885	179.320007
2021-12-02 00:00:00	51.371643	143.692780	83.254242	187.149994
2021-12-03 00:00:00	52.562954	146.249329	84.713844	183.929993
2021-12-06 00:00:00	49.860710	148.464310	86.618927	184.860001
2021-12-07 00:00:00	50.093163	148.074020	85.690086	191.020004
2021-12-08 00:00:00	49.783230	148.737534	85.197227	197.350006
2021-12-09 00:00:00	50.441837	149.605972	84.827591	191.750000
2021-12-10 00:00:00	51.119816	151.694138	85.339394	188.509995
2021-12-13 00:00:00	53.463703	153.850601	86.884300	186.380005
2021-12-14 00:00:00	53.793007	154.416565	87.121239	186.800003
2021-12-15 00:00:00	56.950459	155.011780	87.888969	190.660004
2021-12-16 00:00:00	59.323399	157.207291	89.452827	188.750000
2021-12-17 00:00:00	57.609070	153.645706	88.571365	186.199997
2021-12-20 00:00:00	59.100632	154.035995	88.012177	182.679993
2021-12-21 00:00:00	57.095745	153.938416	88.182785	189.139999
2021-12-22 00:00:00	57.676868	155.460632	89.258774	191.679993
2021-12-23 00:00:00	56.863289	156.221741	89.277977	192.009995
2021-12-29 00:00:00	55.768841	160.212677	90.594147	189.970001
2021-12-30 00:00:00	56.563046	158.827057	90.555717	191.880005
2021-12-31 00:00:00	57.192596	159.617432	91.266632	188.580002
2022-01-04 00:00:00	52.814770	159.510101	92.553963	191.139999
2022-01-05 00:00:00	53.880173	160.232162	92.179291	187.160004
2022-01-06 00:00:00	53.115021	158.885620	93.581924	192.270004
2022-01-07 00:00:00	53.967342	158.797806	95.243927	187.600006
2022-01-10 00:00:00	54.470989	156.631561	96.339127	182.949997
2022-01-11 00:00:00	54.906830	154.816620	97.021225	191.520004
2022-01-12 00:00:00	54.868092	155.158127	97.453552	187.199997
2022-01-13 00:00:00	53.793007	154.455582	98.087608	181.009995
2022-01-14 00:00:00	53.221561	155.938751	99.317307	178.419998
2022-01-18 00:00:00	52.407982	152.933365	97.732147	174.460007
2022-01-19 00:00:00	51.855915	158.075699	97.501579	173.550003
2022-01-20 00:00:00	52.349869	158.929214	98.010750	173.279999
2022-01-21 00:00:00	51.129505	159.537460	98.875381	163.539993
2022-01-24 00:00:00	49.918823	158.242493	96.627342	162.169998
2022-01-25 00:00:00	50.887367	156.515839	98.126038	158.199997
2022-01-26 00:00:00	51.342579	155.152191	97.395897	156.979996
2022-01-27 00:00:00	52.084270	156.113632	98.231712	158.110001
2022-01-28 00:00:00	53.021152	157.457672	99.451805	163.520004
2022-01-31 00:00:00	51.420654	157.408615	98.808136	171.940002
2022-02-01 00:00:00	51.791504	156.712067	99.192421	175.800003
2022-02-02 00:00:00	52.562473	159.517853	99.816879	132.570007
2022-02-03 00:00:00	52.094036	161.028656	99.730408	124.300003

2022-02-04 00:00:00	51.723190	158.468124	99.519051	126.080002
2022-02-07 00:00:00	51.928131	157.281067	99.509453	121.410004
2022-02-08 00:00:00	50.454514	156.927887	99.768837	120.260002
2022-02-09 00:00:00	50.230049	156.574722	100.009018	122.940002
2022-02-10 00:00:00	49.381004	154.190781	100.940895	119.019997
2022-02-11 00:00:00	49.556671	153.327438	103.717323	115.290001
2022-02-14 00:00:00	48.600277	153.768936	104.947006	114.120003
2022-02-15 00:00:00	48.590519	153.847412	105.360115	115.459999
2022-02-16 00:00:00	48.483170	155.014847	107.185448	110.540001
2022-02-17 00:00:00	47.721962	156.790558	107.502480	105.199997
2022-02-18 00:00:00	47.360870	156.869019	107.223885	103.650002
2022-02-22 00:00:00	46.384964	154.936371	104.322556	103.169998
2022-02-23 00:00:00	45.740864	153.003723	104.322556	100.720001
2022-02-24 00:00:00	44.852787	148.883316	98.750496	105.019997
2022-02-25 00:00:00	46.570389	155.240509	101.104202	110.940002
2022-02-28 00:00:00	45.809177	152.935028	97.098091	111.930000
2022-03-01 00:00:00	44.647846	150.403946	97.453552	106.510002
2022-03-02 00:00:00	46.550869	150.874847	98.510315	106.610001
2022-03-03 00:00:00	46.677742	151.434036	98.452675	101.339996
2022-03-04 00:00:00	47.477985	152.199249	95.878006	99.910004
2022-03-07 00:00:00	46.824127	149.942841	89.537361	93.610001
2022-03-08 00:00:00	46.297134	144.007538	90.277107	94.900002
2022-03-09 00:00:00	47.575577	145.950012	90.123390	100.220001
2022-03-10 00:00:00	48.014736	142.192596	88.278847	98.550003
2022-03-11 00:00:00	49.058956	140.505219	85.377533	96.570000
2022-03-14 00:00:00	50.991257	142.300507	86.069237	96.870003
2022-03-15 00:00:00	50.952217	147.421585	89.018593	100.459999
2022-03-16 00:00:00	51.645119	146.921234	90.084961	107.919998
2022-03-17 00:00:00	52.933315	147.382324	89.662262	112.160004
2022-03-18 00:00:00	53.196812	147.303848	90.209862	118.769997
2022-03-21 00:00:00	52.884521	147.863037	90.440422	114.650002
2022-03-22 00:00:00	51.762222	149.001053	89.969688	117.870003
2022-03-23 00:00:00	50.932701	147.961136	88.849930	114.650002
2022-03-24 00:00:00	51.323067	148.216202	90.144943	116.050003
2022-03-25 00:00:00	51.508492	149.933044	90.992058	113.760002
2022-03-28 00:00:00	51.996445	150.963135	89.648361	116.169998
2022-03-29 00:00:00	51.469456	152.513199	91.167328	121.180000
2022-03-30 00:00:00	51.176682	151.463455	91.469185	118.489998
2022-03-31 00:00:00	50.522823	149.903610	91.469185	115.650002
2022-04-01 00:00:00	50.327641	152.150192	94.234482	116.669998
2022-04-04 00:00:00	49.712814	151.159332	93.747627	121.860001
2022-04-05 00:00:00	50.005592	151.689117	93.143936	117.650002
2022-04-06 00:00:00	51.596321	153.857224	96.415558	112.489998
2022-04-07 00:00:00	53.831154	155.848740	97.048470	113.040001
2022-04-08 00:00:00	53.840908	157.065247	97.437943	111.209999
2022-04-11 00:00:00	52.630787	156.466797	98.577164	109.809998
2022-04-12 00:00:00	51.830544	155.995880	97.846893	108.250000
2022-04-13 00:00:00	51.820778	156.437378	98.538216	105.169998

2022-04-14	00:00:00	51.840298	155.564240	99.093231	102.309998
2022-04-18	00:00:00	50.591137	154.082855	98.392174	100.580002
2022-04-19	00:00:00	48.971127	156.388321	99.881935	103.660004
2022-04-20	00:00:00	48.551483	160.547928	100.339569	94.900002
2022-04-21	00:00:00	47.926903	160.422668	102.296692	89.400002
2022-04-22	00:00:00	46.970509	159.080948	99.989029	86.029999
2022-04-25	00:00:00	47.770760	160.363464	99.833244	87.779999
2022-04-26	00:00:00	47.848827	157.640579	100.066925	83.699997
2022-04-27	00:00:00	48.541725	157.216370	99.015343	82.610001
2022-04-28	00:00:00	49.293179	161.211884	99.716400	92.089996
2022-04-29	00:00:00	47.887863	158.390366	97.369781	87.930000
2022-05-02	00:00:00	47.175453	156.249557	95.977394	91.529999
2022-05-03	00:00:00	48.102570	154.108749	96.386353	90.709999
2022-05-04	00:00:00	48.463654	155.243271	97.915054	92.720001
2022-05-05	00:00:00	47.282806	152.382294	97.145828	85.430000
2022-05-06	00:00:00	47.858589	153.901581	96.337669	81.680000
2022-05-09	00:00:00	47.468224	153.516815	97.243202	79.529999
2022-05-10	00:00:00	48.297752	152.707840	96.279243	78.750000
2022-05-11	00:00:00	48.258713	150.557175	100.894577	75.169998
2022-05-12	00:00:00	49.577095	149.945511	100.651146	74.290001
2022-05-13	00:00:00	49.114677	151.553589	101.683266	78.830002
2022-05-16	00:00:00	49.852577	153.033401	103.124344	77.650002
2022-05-17	00:00:00	50.511772	152.599319	103.504082	79.750000
2022-05-18	00:00:00	49.586937	143.088989	103.387245	77.180000
2022-05-19	00:00:00	49.832905	139.793915	97.856628	81.279999
2022-05-20	00:00:00	51.623543	139.882706	98.489540	80.540001
2022-05-24	00:00:00	52.548374	145.644165	103.815666	78.650002
2022-05-25	00:00:00	52.843536	143.256714	105.714371	80.120003
2022-05-26	00:00:00	53.119022	144.509628	105.227524	80.419998
2022-05-27	00:00:00	53.040310	146.719498	104.156456	85.209999
2022-05-31	00:00:00	52.184345	145.890793	103.455391	85.209999
2022-06-01	00:00:00	51.525154	143.680923	102.978287	82.480003
2022-06-02	00:00:00	51.830151	145.229813	103.416451	88.320000
2022-06-03	00:00:00	52.341766	143.927551	102.744591	86.529999
2022-06-06	00:00:00	52.400795	143.365234	103.572243	86.809998
2022-06-07	00:00:00	53.089504	144.963440	103.484604	88.589996
2022-06-08	00:00:00	52.607410	143.158051	100.816673	87.510002
2022-06-09	00:00:00	50.944668	140.573303	99.015343	84.110001
2022-06-10	00:00:00	49.163872	140.040558	99.638504	79.300003
2022-06-13	00:00:00	47.137100	136.291672	95.909241	73.720001
2022-06-14	00:00:00	47.146938	132.039658	96.366882	72.459999
2022-06-15	00:00:00	47.727425	130.727539	95.626869	75.830002
2022-06-16	00:00:00	46.714039	131.526657	95.685287	71.230003
2022-06-17	00:00:00	45.779366	130.579559	95.373703	72.900002
2022-06-21	00:00:00	47.333878	134.535614	97.467155	72.370003
2022-06-22	00:00:00	48.278389	136.636963	96.571350	72.970001
2022-06-23	00:00:00	49.281937	140.385864	98.898491	73.809998
2022-06-24	00:00:00	50.757740	142.408279	100.680359	77.680000

2022-06-27 00:00:00	51.043060	141.323074	100.008507	75.940002
2022-06-28 00:00:00	49.842739	139.024414	99.745613	71.820000
2022-06-29 00:00:00	50.118225	140.287201	98.216904	71.470001
2022-06-30 00:00:00	51.584187	141.855804	97.349289	69.839996
2022-07-05 00:00:00	50.806931	142.753571	96.698593	74.400002
2022-07-06 00:00:00	51.899021	144.085419	93.661972	73.239998
2022-07-07 00:00:00	52.558212	144.036087	93.652107	75.040001
2022-07-08 00:00:00	52.312248	143.069275	92.567604	73.430000
2022-07-11 00:00:00	52.036766	144.075546	91.916901	70.470001
2022-07-12 00:00:00	51.200478	142.802902	92.478874	71.430000
2022-07-13 00:00:00	50.954510	143.740128	89.373238	71.360001
2022-07-14 00:00:00	50.560963	143.315903	88.357750	69.550003
2022-07-15 00:00:00	50.915157	143.118607	88.909859	73.910004
2022-07-18 00:00:00	49.931290	141.382263	88.249298	74.129997
2022-07-19 00:00:00	50.541286	142.102432	90.142250	77.739998
2022-07-20 00:00:00	50.000160	139.645950	88.564789	80.239998
2022-07-21 00:00:00	50.295319	139.778000	92.271828	82.750000
2022-07-22 00:00:00	50.403545	142.012146	94.578873	81.050003
2022-07-25 00:00:00	50.934834	142.975311	94.490135	81.650002
2022-07-26 00:00:00	51.456284	143.253342	95.170418	77.040001
2022-07-27 00:00:00	51.111931	144.613678	95.594368	86.419998
2022-07-28 00:00:00	50.288986	147.016632	95.801407	85.860001
2022-07-29 00:00:00	50.080769	137.931107	95.781693	86.529999
2022-08-02 00:00:00	49.267735	140.949677	97.260567	89.629997
2022-08-03 00:00:00	49.436291	143.859039	97.418304	97.919998
2022-08-04 00:00:00	49.436291	143.630661	96.619720	96.980003
2022-08-05 00:00:00	48.851307	143.700165	96.225349	95.320000
2022-08-08 00:00:00	49.148758	144.246292	96.264786	96.260002
2022-08-09 00:00:00	49.356972	143.908676	95.998596	94.480003
2022-08-10 00:00:00	49.525528	145.269043	96.747887	98.910004
2022-08-11 00:00:00	47.879635	144.236359	98.069016	99.110001
2022-08-12 00:00:00	49.684170	145.636429	97.842247	101.099998
2022-08-15 00:00:00	49.327229	147.513107	99.577461	101.510002
2022-08-16 00:00:00	49.436291	148.873444	100.287323	102.080002
2022-08-17 00:00:00	48.851307	148.188324	99.745064	99.419998
2022-08-18 00:00:00	48.167171	148.714584	99.084503	99.860001
2022-08-19 00:00:00	48.732327	148.674850	98.719711	96.559998
2022-08-22 00:00:00	48.484451	148.277679	96.905632	93.580002
2022-08-23 00:00:00	47.602013	145.417969	96.422539	93.199997
2022-08-24 00:00:00	47.026943	144.792419	96.264786	93.760002
2022-08-25 00:00:00	47.492950	144.673264	96.807045	96.720001
2022-08-26 00:00:00	46.422127	141.287277	95.190140	92.699997
2022-08-29 00:00:00	45.837139	140.691528	94.884506	92.660004
2022-08-30 00:00:00	45.460369	139.192154	94.145065	91.800003
2022-08-31 00:00:00	44.845638	136.967941	94.145065	93.440002
2022-09-01 00:00:00	46.233742	138.655960	95.121132	92.660004
2022-09-02 00:00:00	45.311646	136.193451	93.198586	91.129997
2022-09-06 00:00:00	45.371132	134.674225	92.774643	91.614998

2022-09-07 00:00:00	45.737991	136.709778	93.277466	94.970001
2022-09-08 00:00:00	46.679916	136.888504	94.273239	96.169998
2022-09-09 00:00:00	47.433456	138.973724	95.692955	96.230003
2022-09-12 00:00:00	47.354137	140.105682	96.284508	97.650002
2022-09-13 00:00:00	45.797478	137.206253	92.695770	95.010002
2022-09-14 00:00:00	45.757820	137.533920	92.380280	97.660004
2022-09-15 00:00:00	45.549603	136.471466	92.715492	96.400002
2022-09-16 00:00:00	45.638840	137.305542	94.214081	94.000000
2022-09-19 00:00:00	45.053852	137.017593	94.569008	95.029999
2022-09-20 00:00:00	44.389545	136.531052	94.657745	91.629997
2022-09-21 00:00:00	43.546768	134.773514	95.061966	91.180000
2022-09-22 00:00:00	44.191246	135.250137	94.440842	87.660004
2022-09-23 00:00:00	43.705414	134.624573	90.497185	86.970001
2022-09-26 00:00:00	43.457535	134.753662	88.899994	84.260002
2022-09-27 00:00:00	43.715324	131.049942	87.019997	85.750000
2022-09-28 00:00:00	44.052437	131.049942	87.349998	91.120003
2022-09-29 00:00:00	43.784729	127.793053	86.089996	88.699997
2022-09-30 00:00:00	43.388126	125.360321	83.010002	86.070000
2022-10-03 00:00:00	43.764900	127.604393	85.029999	87.180000
2022-10-04 00:00:00	44.082180	129.183197	87.000000	92.790001
2022-10-05 00:00:00	43.745068	128.289536	86.970001	93.830002
2022-10-06 00:00:00	42.723824	125.588707	85.470001	94.419998
2022-10-07 00:00:00	41.960365	123.394272	84.650002	90.169998
2022-10-11 00:00:00	41.563763	123.354561	85.620003	83.089996
2022-10-12 00:00:00	41.672829	123.553146	85.669998	83.809998
2022-10-13 00:00:00	42.614758	125.419899	87.230003	84.040001
2022-10-14 00:00:00	42.495777	124.198570	85.260002	80.470001
2022-10-17 00:00:00	43.279064	126.442642	85.570000	84.660004
2022-10-18 00:00:00	43.715324	127.465378	86.309998	85.290001
2022-10-19 00:00:00	42.743652	128.647003	86.470001	84.470001
2022-10-20 00:00:00	42.545353	126.989998	85.029999	84.779999
2022-10-21 00:00:00	44.568016	128.580002	86.510002	83.940002
2022-10-24 00:00:00	45.153004	129.369995	87.190002	83.320000
2022-10-25 00:00:00	45.202579	130.860001	88.500000	89.239998
2022-10-26 00:00:00	45.668587	131.779999	89.580002	88.550003
2022-10-27 00:00:00	45.351307	131.880005	89.540001	87.349998
2022-10-28 00:00:00	47.026943	135.220001	92.529999	86.250000
2022-10-31 00:00:00	46.154419	134.669998	91.849998	83.580002
2022-11-01 00:00:00	47.602013	134.880005	91.720001	83.110001
2022-11-02 00:00:00	46.670002	132.940002	89.379997	79.449997
2022-11-03 00:00:00	46.570000	132.029999	88.339996	76.550003
2022-11-04 00:00:00	47.220001	134.440002	89.980003	75.180000
2022-11-07 00:00:00	47.090000	136.500000	90.900002	77.660004
2022-11-08 00:00:00	47.349998	136.809998	92.500000	81.129997
2022-11-09 00:00:00	46.720001	136.479996	90.970001	78.680000
2022-11-10 00:00:00	47.380001	141.179993	93.250000	86.800003
2022-11-11 00:00:00	47.599998	140.970001	94.470001	91.029999
2022-11-14 00:00:00	49.240002	140.979996	93.930000	89.510002

2022-11-15 00:00:00	48.570000	140.490005	94.669998	89.860001
2022-11-16 00:00:00	48.049999	141.740005	94.709999	87.040001
2022-11-17 00:00:00	48.330002	140.869995	95.160004	85.639999
2022-11-18 00:00:00	48.230000	142.570007	96.279999	84.919998
2022-11-21 00:00:00	48.180000	144.380005	96.900002	80.629997
2022-11-22 00:00:00	49.080002	145.619995	97.160004	79.910004
2022-11-23 00:00:00	48.849998	146.449997	98.110001	80.750000

	QCOM	RY.TO	SBUX	SLB	SO \
Date					
2021-03-16 00:00:00	129.892349	108.809334	107.442192	27.394434	57.139622
2021-03-17 00:00:00	130.154770	109.203339	106.593010	27.638504	56.626534
2021-03-18 00:00:00	126.102020	109.794342	103.852425	26.603647	56.346664
2021-03-19 00:00:00	127.336311	109.325287	102.617226	26.408390	55.693642
2021-03-22 00:00:00	130.319992	108.799965	103.804192	26.994160	55.684311
2021-03-23 00:00:00	128.794128	108.668625	102.530388	26.037405	56.561234
2021-03-24 00:00:00	123.604271	108.781181	101.295212	26.769615	56.617203
2021-03-25 00:00:00	123.701462	109.090759	103.591881	26.750088	57.260899
2021-03-26 00:00:00	129.250931	109.813087	106.052605	27.638504	57.522106
2021-03-29 00:00:00	127.579285	109.869392	105.309555	27.042974	58.137817
2021-03-30 00:00:00	126.451874	109.888145	106.409660	26.574358	57.410160
2021-03-31 00:00:00	128.862167	108.696770	105.444656	26.545073	57.988556
2021-04-01 00:00:00	133.915985	108.818733	105.550812	27.433487	58.147148
2021-04-05 00:00:00	136.384552	109.287766	107.133408	26.896532	58.454994
2021-04-06 00:00:00	134.178375	109.278381	109.188835	26.789141	58.874805
2021-04-07 00:00:00	135.509857	109.334663	109.227440	26.701275	58.585602
2021-04-08 00:00:00	136.394287	109.569199	109.082695	26.418154	58.641582
2021-04-09 00:00:00	136.617813	109.860016	109.217789	26.125273	58.520306
2021-04-12 00:00:00	133.575806	110.310287	109.825737	25.910490	58.669563
2021-04-13 00:00:00	133.439758	109.925682	111.321465	25.422348	59.294601
2021-04-14 00:00:00	130.961441	110.075752	111.128464	26.662222	59.602459
2021-04-15 00:00:00	133.964554	110.713661	112.575951	26.027641	60.162189
2021-04-16 00:00:00	134.324188	111.154572	114.197136	25.666418	60.647297
2021-04-19 00:00:00	131.447388	110.648003	113.483040	25.900724	60.563332
2021-04-20 00:00:00	129.649399	109.381577	112.199608	24.651087	61.654812
2021-04-21 00:00:00	132.360962	109.873955	112.653145	25.119699	61.318981
2021-04-22 00:00:00	129.231476	109.694038	111.861862	24.651087	60.731258
2021-04-23 00:00:00	131.622314	110.366318	113.444450	25.100172	60.945816
2021-04-26 00:00:00	135.053101	110.546227	111.861862	25.744522	60.320782
2021-04-27 00:00:00	134.129776	110.887093	112.083817	25.559027	60.012936
2021-04-28 00:00:00	132.730270	111.483597	108.465088	26.711039	60.022259
2021-04-29 00:00:00	138.668472	111.833954	110.617027	27.160128	60.787231
2021-04-30 00:00:00	134.897583	111.076462	110.481918	26.408390	61.729446
2021-05-03 00:00:00	133.566071	111.815010	111.668861	27.550638	61.617500
2021-05-04 00:00:00	130.349136	111.654045	110.115227	27.716606	61.962677
2021-05-05 00:00:00	130.864243	112.714531	109.507286	29.620354	61.057762
2021-05-06 00:00:00	132.176300	113.216370	110.723167	30.001104	61.617500
2021-05-07 00:00:00	133.974274	113.869705	110.337166	31.133589	61.813412

2021-05-10 00:00:00	125.314804	113.983330	110.298576	30.879755	61.860050
2021-05-11 00:00:00	124.760818	113.064880	109.574837	30.518534	61.384285
2021-05-12 00:00:00	121.116257	113.566719	106.368011	31.338606	60.040916
2021-05-13 00:00:00	123.536240	114.702950	107.046181	31.006676	61.318981
2021-05-14 00:00:00	126.490776	115.384689	107.734055	32.031769	61.356667
2021-05-17 00:00:00	126.150620	115.791832	107.520905	33.242355	60.725292
2021-05-18 00:00:00	125.285637	116.596672	107.608109	32.285603	60.461441
2021-05-19 00:00:00	126.986443	116.312607	106.251732	31.240980	60.291809
2021-05-20 00:00:00	128.910751	116.435692	107.937508	31.016438	60.367195
2021-05-21 00:00:00	127.763931	116.909134	107.462776	31.192167	60.668751
2021-05-25 00:00:00	129.989548	116.899666	109.119484	30.499008	60.386044
2021-05-26 00:00:00	129.348114	117.837059	109.332619	30.801653	60.046803
2021-05-27 00:00:00	129.882645	119.304703	109.972046	30.596636	59.990257
2021-05-28 00:00:00	130.757324	118.944885	110.330521	30.586872	60.235271
2021-06-01 00:00:00	130.174210	119.162666	109.807358	32.277702	59.773521
2021-06-02 00:00:00	130.721252	119.285767	109.477951	34.757587	60.216423
2021-06-03 00:00:00	128.728470	119.418320	107.656548	35.796593	60.744137
2021-06-04 00:00:00	131.229202	119.503540	108.499420	35.698570	60.640484
2021-06-07 00:00:00	130.232819	119.333107	107.859993	35.120262	60.942024
2021-06-08 00:00:00	131.092438	119.001709	108.044067	35.188873	59.782940
2021-06-09 00:00:00	129.812775	118.282082	107.918129	35.051643	59.961987
2021-06-10 00:00:00	131.111969	118.073769	108.712570	34.247887	60.197578
2021-06-11 00:00:00	131.502731	119.399384	109.051651	34.198879	60.169300
2021-06-14 00:00:00	134.130417	119.692917	108.945091	33.375519	60.112759
2021-06-15 00:00:00	132.440475	120.564026	108.402542	33.512741	60.612213
2021-06-16 00:00:00	131.825089	120.895424	107.889061	33.365719	59.349453
2021-06-17 00:00:00	132.215820	120.327316	107.918129	31.826818	59.698120
2021-06-18 00:00:00	129.920227	119.266823	106.280792	30.670189	57.907658
2021-06-21 00:00:00	130.858017	119.550873	107.511223	32.463940	58.897125
2021-06-22 00:00:00	131.952072	119.153198	108.363792	32.365917	58.501343
2021-06-23 00:00:00	132.381897	118.963829	108.082832	32.228695	57.926502
2021-06-24 00:00:00	134.726303	119.030106	108.499420	32.601166	57.464745
2021-06-25 00:00:00	134.462570	119.465668	109.516701	32.689384	57.983044
2021-06-28 00:00:00	136.484619	118.859665	108.741631	31.385729	57.945351
2021-06-29 00:00:00	139.317459	118.982765	108.770691	31.248499	56.974720
2021-06-30 00:00:00	139.620300	118.916473	108.325035	31.375925	57.021839
2021-07-02 00:00:00	139.278412	119.333107	111.386536	32.140480	57.983044
2021-07-06 00:00:00	137.920593	119.285767	112.122849	30.552567	58.086700
2021-07-07 00:00:00	136.728821	119.257347	113.488914	30.072273	58.133820
2021-07-08 00:00:00	135.087723	119.096382	112.374748	29.925243	58.001892
2021-07-09 00:00:00	138.155014	119.655045	113.808624	30.572168	57.926502
2021-07-12 00:00:00	139.170959	120.933296	114.767761	30.601576	58.237473
2021-07-13 00:00:00	137.910797	121.179482	115.823792	30.003658	57.803997
2021-07-14 00:00:00	140.421295	121.899109	116.066002	28.964655	58.322292
2021-07-15 00:00:00	138.184326	122.438812	115.261871	28.160900	59.057327
2021-07-16 00:00:00	136.474869	120.762863	115.029350	27.317934	59.471962
2021-07-19 00:00:00	135.576141	118.869141	111.725632	26.122103	59.170410
2021-07-20 00:00:00	136.318573	119.295235	113.760170	26.700413	59.321190

2021-07-21 00:00:00	138.877884	119.588753	115.552528	27.866844	59.198677
2021-07-22 00:00:00	139.141647	119.172134	118.807793	27.425755	59.349453
2021-07-23 00:00:00	141.525146	119.687874	122.043686	27.847237	60.178730
2021-07-26 00:00:00	140.177094	120.203598	122.130882	28.876438	60.056221
2021-07-27 00:00:00	137.666611	120.853050	122.101830	28.601986	60.819534
2021-07-28 00:00:00	139.141647	120.948540	118.594650	28.739212	60.301235
2021-07-29 00:00:00	147.493668	121.292358	118.565575	29.052872	60.744137
2021-07-30 00:00:00	146.331223	120.509224	117.645195	28.258921	60.188152
2021-08-03 00:00:00	144.524048	120.604721	115.416878	28.327532	60.433155
2021-08-04 00:00:00	144.787796	121.483376	114.564308	27.082689	60.338924
2021-08-05 00:00:00	143.429977	122.171013	115.320000	27.366945	61.045692
2021-08-06 00:00:00	142.892715	123.336197	115.339386	27.857040	60.970303
2021-08-09 00:00:00	143.517899	123.536751	114.263969	27.435558	61.111660
2021-08-10 00:00:00	142.492218	124.501358	112.762283	27.857040	61.450909
2021-08-11 00:00:00	143.283463	125.074409	113.306931	28.405949	61.846687
2021-08-12 00:00:00	143.742569	125.189003	112.577484	27.984465	61.931503
2021-08-13 00:00:00	145.198074	125.169891	113.559807	27.788427	62.378906
2021-08-16 00:00:00	144.699890	125.284492	114.318436	27.229717	63.188030
2021-08-17 00:00:00	141.066025	124.873833	113.375015	26.651405	63.254662
2021-08-18 00:00:00	138.887665	124.787895	112.509407	26.278929	62.835819
2021-08-19 00:00:00	137.354019	124.491814	111.186691	25.916262	63.188030
2021-08-20 00:00:00	138.799744	125.800247	111.488190	25.935865	64.082832
2021-08-23 00:00:00	140.802246	125.819344	111.993942	26.945463	63.464081
2021-08-24 00:00:00	141.114868	126.115410	111.925858	27.661001	62.569290
2021-08-25 00:00:00	140.538513	127.165947	112.402420	27.886444	62.702564
2021-08-26 00:00:00	139.083023	126.612061	111.186691	27.572784	62.959568
2021-08-27 00:00:00	141.495834	126.335083	111.964767	28.503965	62.816788
2021-08-30 00:00:00	142.560593	125.179466	112.441338	27.719814	62.588329
2021-08-31 00:00:00	143.293228	123.775528	114.269798	27.606592	62.569290
2021-09-01 00:00:00	143.725052	123.670471	114.230888	27.547518	63.283230
2021-09-02 00:00:00	142.419785	123.823265	114.153099	28.167782	63.635433
2021-09-03 00:00:00	141.938904	123.660904	113.978020	27.655819	63.083317
2021-09-07 00:00:00	141.075272	124.109787	112.616394	27.399837	63.007172
2021-09-08 00:00:00	139.868164	123.622711	114.804726	26.247921	64.073311
2021-09-09 00:00:00	138.945663	124.004715	115.534180	26.208540	63.949562
2021-09-10 00:00:00	140.025177	123.804176	116.069092	26.366070	63.026211
2021-09-13 00:00:00	140.741608	123.355301	115.913490	27.675510	63.140442
2021-09-14 00:00:00	138.513840	122.658089	115.602257	27.242311	62.797749
2021-09-15 00:00:00	135.667801	123.737312	111.497917	28.788044	62.835819
2021-09-16 00:00:00	135.824814	123.746880	111.527084	28.413916	62.236111
2021-09-17 00:00:00	131.114151	121.922714	110.301628	27.872417	61.055744
2021-09-20 00:00:00	130.289749	120.079445	108.755211	26.828802	60.884399
2021-09-21 00:00:00	129.298569	119.697418	109.144241	26.513748	60.741615
2021-09-22 00:00:00	130.535110	120.728889	109.970947	26.730349	60.551231
2021-09-23 00:00:00	131.418365	122.390671	111.011627	28.433607	60.351326
2021-09-24 00:00:00	131.388931	122.151917	110.982437	28.561600	60.122868
2021-09-27 00:00:00	130.996353	122.209229	110.564232	29.723360	59.437492
2021-09-28 00:00:00	127.482964	120.881691	108.648224	30.432232	58.961536

2021-09-29 00:00:00	126.874512	121.015404	109.095612	29.861195	59.627876
2021-09-30 00:00:00	126.580093	120.365959	107.286591	29.181860	58.990093
2021-10-01 00:00:00	126.315132	120.442368	109.825050	29.890732	58.780666
2021-10-04 00:00:00	124.322891	120.528313	108.405075	30.402693	59.427971
2021-10-05 00:00:00	125.157089	121.531136	107.811790	30.117176	59.075768
2021-10-06 00:00:00	125.677216	121.597984	108.580147	29.477222	59.713547
2021-10-07 00:00:00	125.461311	122.132820	109.134521	30.540529	59.656429
2021-10-08 00:00:00	124.195312	122.639000	108.171654	31.170637	59.551727
2021-10-12 00:00:00	120.662285	122.533943	107.957687	32.371780	59.113838
2021-10-13 00:00:00	122.713409	122.887321	107.724274	32.253632	59.504128
2021-10-14 00:00:00	126.266052	124.033379	108.803841	33.001892	60.218060
2021-10-15 00:00:00	127.777390	124.787895	108.395340	33.474464	60.094311
2021-10-18 00:00:00	127.698883	125.379997	110.262733	33.632000	59.447014
2021-10-19 00:00:00	130.034607	125.647423	110.379425	34.006126	59.942001
2021-10-20 00:00:00	129.700943	126.201370	110.739304	34.203030	60.646423
2021-10-21 00:00:00	130.574371	126.421013	111.303398	33.769833	61.074791
2021-10-22 00:00:00	129.170975	127.242386	111.410385	33.385860	59.922974
2021-10-25 00:00:00	129.475204	127.531235	111.566002	33.828903	59.789703
2021-10-26 00:00:00	129.485016	127.771942	111.770233	33.730453	60.237103
2021-10-27 00:00:00	128.758789	126.125465	110.398880	32.037037	59.627876
2021-10-28 00:00:00	131.202469	126.260269	110.097382	32.785290	59.723068
2021-10-29 00:00:00	130.564560	124.036049	103.162811	31.761364	59.323265
2021-11-01 00:00:00	132.301605	124.498230	106.790573	32.785290	59.475567
2021-11-02 00:00:00	132.713791	125.836601	108.395340	32.686832	59.485092
2021-11-03 00:00:00	135.903336	127.261627	109.523560	32.470234	59.542202
2021-11-04 00:00:00	153.205292	127.589012	109.085899	32.637611	59.494606
2021-11-05 00:00:00	159.996552	127.165359	113.705704	32.992039	60.065758
2021-11-08 00:00:00	162.764084	127.097946	112.003662	33.769833	59.608837
2021-11-09 00:00:00	163.637512	127.319405	111.001884	33.612305	60.303726
2021-11-10 00:00:00	156.826645	127.473465	110.620941	32.224094	60.789211
2021-11-11 00:00:00	161.360657	128.272644	108.852974	32.273331	60.018162
2021-11-12 00:00:00	161.871002	128.272644	109.126465	32.253632	59.537170
2021-11-15 00:00:00	165.374557	127.531235	109.272987	32.214256	59.835381
2021-11-16 00:00:00	178.427078	127.723801	109.624626	32.381622	59.642986
2021-11-17 00:00:00	180.124908	127.252022	109.907890	31.564455	59.806526
2021-11-18 00:00:00	182.853210	126.895752	110.279076	31.367548	59.287056
2021-11-19 00:00:00	181.557755	127.059425	108.208282	29.585524	60.287514
2021-11-22 00:00:00	178.024719	126.741692	108.862724	29.871038	60.720406
2021-11-23 00:00:00	177.573288	126.780197	110.943283	30.698057	60.614586
2021-11-24 00:00:00	177.347565	127.203865	111.324226	30.924501	60.701172
2021-11-26 00:00:00	172.470062	125.846230	108.091080	29.240934	59.681461
2021-11-29 00:00:00	180.321213	124.912254	108.159447	29.191704	60.431808
2021-11-30 00:00:00	177.200348	121.609634	107.094749	28.356245	58.777199
2021-12-01 00:00:00	173.013672	121.070427	106.137505	28.059629	58.815678
2021-12-02 00:00:00	174.392822	123.381294	108.833427	28.989019	59.652607
2021-12-03 00:00:00	173.880554	123.862732	108.657600	28.909922	60.441433
2021-12-06 00:00:00	172.836349	124.267136	110.728386	29.671230	62.201862
2021-12-07 00:00:00	180.983154	125.480347	113.561066	30.412766	62.019085

2021-12-08 00:00:00	179.909393	124.825592	113.551300	30.709377	62.288441
2021-12-09 00:00:00	179.544907	124.912254	112.672195	30.274345	62.115280
2021-12-10 00:00:00	181.140778	125.345535	114.020157	30.640167	62.605900
2021-12-13 00:00:00	180.589111	123.708656	112.877319	29.493261	63.664082
2021-12-14 00:00:00	179.269073	123.843468	112.047058	29.335070	63.462063
2021-12-15 00:00:00	186.460327	125.480347	112.017754	28.979134	64.212418
2021-12-16 00:00:00	175.496124	126.587631	110.953049	29.364731	64.981995
2021-12-17 00:00:00	174.166245	126.115822	106.108200	28.642971	64.298988
2021-12-20 00:00:00	174.038162	125.162598	105.580727	28.148615	64.568344
2021-12-21 00:00:00	176.904831	126.683929	107.807800	29.117554	63.866089
2021-12-22 00:00:00	178.678024	127.666023	109.145996	29.166988	64.116219
2021-12-23 00:00:00	180.017761	128.677048	109.761375	29.236197	64.010399
2021-12-29 00:00:00	183.426224	129.784332	113.678276	29.315292	65.482231
2021-12-30 00:00:00	180.007904	129.466599	113.541527	29.483376	65.761208
2021-12-31 00:00:00	180.145813	129.264404	114.254585	29.611908	65.972839
2022-01-04 00:00:00	184.440872	131.758209	111.587959	32.884541	65.578423
2022-01-05 00:00:00	183.721741	133.183258	107.876175	32.884541	65.655380
2022-01-06 00:00:00	183.179947	134.617905	108.559921	33.665623	65.578423
2022-01-07 00:00:00	177.722473	136.485855	105.072800	34.634560	66.030563
2022-01-10 00:00:00	177.003326	137.236893	103.568550	34.723545	65.924736
2022-01-11 00:00:00	182.638123	138.450104	101.624756	36.068195	65.078194
2022-01-12 00:00:00	183.642929	139.605545	101.458702	36.038532	65.203255
2022-01-13 00:00:00	181.150635	140.000305	100.022820	35.761692	65.751579
2022-01-14 00:00:00	185.879120	141.820145	97.795753	37.383183	66.049805
2022-01-18 00:00:00	176.195557	143.168137	95.461243	37.116230	65.424507
2022-01-19 00:00:00	169.900757	141.540909	94.621201	36.681194	65.732338
2022-01-20 00:00:00	164.019684	139.913651	93.497894	36.631756	65.299454
2022-01-21 00:00:00	162.473053	139.278152	94.074196	35.949551	65.232117
2022-01-24 00:00:00	167.536499	138.016815	95.822647	36.186836	64.808838
2022-01-25 00:00:00	162.985321	137.123505	94.757950	38.352116	64.693398
2022-01-26 00:00:00	164.512222	137.356552	93.361145	39.350716	64.472137
2022-01-27 00:00:00	158.798630	138.007111	93.107185	38.421326	65.443748
2022-01-28 00:00:00	164.325058	139.026642	94.953300	39.232067	66.376869
2022-01-31 00:00:00	173.141739	140.725891	96.037537	38.628960	66.848236
2022-02-01 00:00:00	174.491348	141.900787	96.467323	39.073875	65.405273
2022-02-02 00:00:00	185.396408	142.502792	95.461243	38.806923	66.194084
2022-02-03 00:00:00	176.431976	141.920227	93.712791	38.144489	66.617371
2022-02-04 00:00:00	176.796463	142.609604	92.794609	38.075275	66.078659
2022-02-07 00:00:00	172.481720	141.541534	92.980209	39.815411	65.078194
2022-02-08 00:00:00	175.929565	143.250473	92.716461	38.580631	65.309067
2022-02-09 00:00:00	181.209732	142.182373	94.875160	39.076527	65.491859
2022-02-10 00:00:00	171.476929	141.395859	93.569450	38.848412	63.442818
2022-02-11 00:00:00	162.187378	142.007599	92.018303	40.286510	64.250885
2022-02-14 00:00:00	162.670105	140.793854	91.939766	38.977348	63.346626
2022-02-15 00:00:00	170.422852	140.793854	92.784065	39.760860	62.548172
2022-02-16 00:00:00	170.028824	140.667618	93.441826	41.347721	62.403885
2022-02-17 00:00:00	164.315231	137.356552	91.350723	40.772488	62.326923
2022-02-18 00:00:00	165.142700	136.958435	91.635422	39.879875	61.977039

2022-02-22 00:00:00	163.418762	138.220749	91.409630	39.225296	62.482422
2022-02-23 00:00:00	159.212357	136.414688	88.012817	39.413738	61.073189
2022-02-24 00:00:00	165.477631	133.618225	89.347977	38.005390	61.112064
2022-02-25 00:00:00	168.383682	136.298157	90.889305	39.126118	63.211334
2022-02-28 00:00:00	169.427917	136.142807	90.113731	38.917843	62.948921
2022-03-01 00:00:00	161.251541	133.414307	88.493866	37.360729	62.297760
2022-03-02 00:00:00	167.424240	133.637650	91.075829	38.917843	62.754543
2022-03-03 00:00:00	163.566299	135.006729	89.858482	38.203751	64.533096
2022-03-04 00:00:00	160.509628	134.239655	88.385872	38.620300	65.679924
2022-03-07 00:00:00	148.480820	132.346237	82.917595	41.754356	67.283531
2022-03-08 00:00:00	149.133682	131.316971	82.465988	44.709896	65.913162
2022-03-09 00:00:00	155.415192	133.754166	86.000252	42.210583	65.232857
2022-03-10 00:00:00	153.041092	134.297913	85.568283	43.043686	66.680962
2022-03-11 00:00:00	150.696640	134.142563	81.219193	42.547791	66.758713
2022-03-14 00:00:00	139.765839	135.045578	77.842003	41.208874	66.729561
2022-03-15 00:00:00	142.654343	136.016586	81.602066	38.937675	66.729561
2022-03-16 00:00:00	148.827026	136.764236	85.813721	37.569008	66.593483
2022-03-17 00:00:00	151.181366	137.638138	86.059158	39.185623	66.486595
2022-03-18 00:00:00	152.328857	138.007111	87.963722	39.403816	66.117271
2022-03-21 00:00:00	153.911591	138.570282	85.273766	40.851830	66.953087
2022-03-22 00:00:00	155.909805	138.813034	86.284958	40.861752	66.885056
2022-03-23 00:00:00	151.220917	136.317596	84.645447	42.061813	66.855896
2022-03-24 00:00:00	156.750641	136.414688	85.529022	42.289925	67.351562
2022-03-25 00:00:00	156.265915	137.181778	85.852989	43.321388	68.935738
2022-03-28 00:00:00	156.740723	136.735107	86.766006	41.387394	69.003754
2022-03-29 00:00:00	159.332474	136.298157	89.563965	42.280010	70.033958
2022-03-30 00:00:00	151.082428	135.822388	89.367607	41.863457	70.461594
2022-03-31 00:00:00	151.171463	133.647339	89.308708	40.970844	70.471306
2022-04-01 00:00:00	145.404358	133.336639	89.819214	41.347721	72.036041
2022-04-04 00:00:00	152.150787	134.220245	86.481300	41.208874	71.064163
2022-04-05 00:00:00	143.890869	133.987213	82.583801	40.127823	72.259567
2022-04-06 00:00:00	137.777527	133.171570	81.837677	40.445194	74.358841
2022-04-07 00:00:00	137.718185	131.637421	81.602066	40.633636	73.629929
2022-04-08 00:00:00	135.215469	132.695786	80.031281	42.200665	74.339401
2022-04-11 00:00:00	133.899826	133.569672	79.206619	40.990681	72.385925
2022-04-12 00:00:00	134.621933	132.491882	78.332878	41.189037	73.416115
2022-04-13 00:00:00	138.984375	132.443329	79.442245	42.220501	73.241173
2022-04-14 00:00:00	135.433105	132.889984	78.048172	42.894917	73.853470
2022-04-18 00:00:00	137.817108	133.200699	78.146347	43.321388	73.697960
2022-04-19 00:00:00	139.528442	134.696030	79.736763	43.073441	74.125587
2022-04-20 00:00:00	138.826096	134.977615	78.705940	42.329597	74.349121
2022-04-21 00:00:00	134.641724	134.550385	77.518028	40.316265	74.310242
2022-04-22 00:00:00	131.377319	130.034988	76.497025	41.308052	73.775711
2022-04-25 00:00:00	135.086868	128.898819	76.555931	38.372353	72.862144
2022-04-26 00:00:00	132.059875	127.478569	74.248840	39.215378	71.666725
2022-04-27 00:00:00	133.642624	127.018219	73.375099	39.622009	71.414040
2022-04-28 00:00:00	146.591415	128.751892	75.181496	39.780697	73.454987
2022-04-29 00:00:00	138.183121	127.086792	73.276932	38.689728	71.326561

2022-05-02	00:00:00	143.702927	127.037804	73.993599	38.788906	71.151627
2022-05-03	00:00:00	142.703796	128.281754	72.972588	39.820370	71.064163
2022-05-04	00:00:00	147.442139	129.878296	80.149086	42.250252	72.473381
2022-05-05	00:00:00	140.112061	127.645096	76.065063	41.734524	71.977730
2022-05-06	00:00:00	139.063507	126.930077	75.122589	42.676720	72.570572
2022-05-09	00:00:00	133.464569	125.108253	72.147926	37.727695	72.142952
2022-05-10	00:00:00	135.334167	123.776169	70.547691	37.578922	71.141907
2022-05-11	00:00:00	130.872833	123.795753	68.780556	38.054981	71.899979
2022-05-12	00:00:00	130.348557	122.767296	69.106827	38.709564	71.997169
2022-05-13	00:00:00	133.474442	124.021034	74.742142	40.405525	72.242386
2022-05-16	00:00:00	132.465454	124.285484	71.598221	41.794029	72.830925
2022-05-17	00:00:00	138.183121	124.608719	72.883476	42.597378	72.732834
2022-05-18	00:00:00	129.042786	123.384377	70.471161	40.792324	72.409142
2022-05-19	00:00:00	129.161484	124.373650	71.113785	40.514622	71.928505
2022-05-20	00:00:00	130.180389	124.638100	72.557213	40.782406	72.006981
2022-05-24	00:00:00	127.143494	125.979980	71.894821	43.539581	74.243401
2022-05-25	00:00:00	129.814362	125.911423	71.657547	44.680138	74.243401
2022-05-26	00:00:00	133.385422	125.901619	73.644730	46.306675	73.851044
2022-05-27	00:00:00	138.252350	128.262146	75.839546	47.814194	74.616135
2022-05-31	00:00:00	141.675034	129.457123	77.609238	45.748730	74.213974
2022-06-01	00:00:00	139.238693	129.731369	75.414421	46.465424	74.106079
2022-06-02	00:00:00	145.384201	130.142731	78.518791	46.087170	74.498428
2022-06-03	00:00:00	140.432007	129.241623	78.152992	47.251793	73.821617
2022-06-06	00:00:00	139.656357	129.770554	78.083786	47.002941	73.909897
2022-06-07	00:00:00	141.098267	130.358231	78.568222	48.705082	74.243401
2022-06-08	00:00:00	138.184616	129.163269	77.579575	49.342136	73.203659
2022-06-09	00:00:00	135.947174	128.242554	78.014580	47.918713	71.496918
2022-06-10	00:00:00	132.456741	125.911423	74.811340	46.992985	70.761253
2022-06-13	00:00:00	127.942085	124.079796	71.538910	44.116272	67.436043
2022-06-14	00:00:00	129.533157	123.423553	71.489471	43.021328	65.503685
2022-06-15	00:00:00	130.298859	123.981857	73.348145	41.329144	65.297707
2022-06-16	00:00:00	120.145828	122.209000	70.144905	38.303116	65.013245
2022-06-17	00:00:00	120.314880	121.973930	71.054466	36.471573	64.140259
2022-06-21	00:00:00	123.695908	123.785950	72.132103	38.641552	65.866615
2022-06-22	00:00:00	121.478355	122.659569	72.468239	37.347530	66.396301
2022-06-23	00:00:00	119.419899	120.818146	74.346672	34.819206	67.955910
2022-06-24	00:00:00	124.401947	121.787834	77.223656	34.898838	68.495399
2022-06-27	00:00:00	126.470345	122.209000	76.798546	35.725021	69.025085
2022-06-28	00:00:00	130.865692	122.767296	75.473740	36.800060	69.270302
2022-06-29	00:00:00	129.503326	123.452934	75.562721	36.013691	69.319344
2022-06-30	00:00:00	127.027214	122.081673	75.523170	35.595619	69.947105
2022-07-05	00:00:00	125.127876	122.306961	78.617653	33.176792	69.466476
2022-07-06	00:00:00	126.351006	122.963203	77.965149	32.579548	70.104050
2022-07-07	00:00:00	133.650055	124.863388	78.340836	34.221966	69.927498
2022-07-08	00:00:00	135.251068	124.941734	78.380379	34.162239	69.829407
2022-07-11	00:00:00	131.502106	124.755646	77.016045	33.216606	70.398323
2022-07-12	00:00:00	132.208145	125.049484	76.877632	32.579548	70.604309
2022-07-13	00:00:00	134.883133	123.756577	77.035812	32.141571	69.839211

2022-07-14 00:00:00	141.108200	116.792511	77.312630	31.185984	70.486603
2022-07-15 00:00:00	143.564423	116.195030	78.716530	32.151524	70.947624
2022-07-18 00:00:00	140.899384	118.320496	79.319603	32.977711	70.319847
2022-07-19 00:00:00	146.547684	120.749580	81.613281	34.062698	70.378700
2022-07-20 00:00:00	150.863480	121.160965	82.325104	33.983067	69.584183
2022-07-21 00:00:00	154.990311	121.533173	82.592041	33.475410	69.495903
2022-07-22 00:00:00	152.842361	121.082611	82.641472	34.908791	70.565071
2022-07-25 00:00:00	152.394867	121.834801	80.575195	36.003735	71.300735
2022-07-26 00:00:00	149.133179	120.597649	79.398697	35.436352	72.105072
2022-07-27 00:00:00	152.563919	121.389427	82.018623	36.163002	71.859848
2022-07-28 00:00:00	145.632812	122.478119	83.709221	35.545849	74.390533
2022-07-29 00:00:00	144.250565	123.576714	83.817970	36.859779	75.420464
2022-08-02 00:00:00	146.209579	122.953194	82.760117	36.521343	74.478813
2022-08-03 00:00:00	148.327698	124.972221	86.279709	35.376633	75.783394
2022-08-04 00:00:00	150.167374	125.140480	85.894142	33.793941	76.479820
2022-08-05 00:00:00	149.371841	125.170166	84.757195	34.500675	75.793205
2022-08-08 00:00:00	146.985229	123.319382	84.747307	34.490723	75.714729
2022-08-09 00:00:00	141.714798	122.933395	83.877289	34.829163	76.754471
2022-08-10 00:00:00	146.169815	124.606026	85.508560	34.759480	76.793709
2022-08-11 00:00:00	147.005112	125.585846	86.771309	36.720425	76.411163
2022-08-12 00:00:00	150.445801	126.714134	87.805367	36.969276	77.301743
2022-08-15 00:00:00	151.281128	127.129814	88.650520	35.595619	77.549118
2022-08-16 00:00:00	149.192841	127.931488	88.889145	35.416451	78.241783
2022-08-17 00:00:00	147.701202	127.743454	87.845139	35.237274	78.419899
2022-08-18 00:00:00	150.535309	128.268005	88.043999	36.959324	78.884979
2022-08-19 00:00:00	146.776413	127.723656	86.423309	36.949368	79.320374
2022-08-22 00:00:00	140.819824	126.318237	84.464569	36.750286	78.281364
2022-08-23 00:00:00	139.934784	125.189957	84.206062	39.179073	77.964722
2022-08-24 00:00:00	140.521500	121.933769	85.558289	39.726543	78.043884
2022-08-25 00:00:00	145.433929	124.467468	86.890625	39.985348	78.291267
2022-08-26 00:00:00	137.607849	123.685585	83.579651	39.238792	77.380898
2022-08-29 00:00:00	136.315109	123.784554	83.639313	40.194382	77.855873
2022-08-30 00:00:00	133.660004	121.884293	82.933372	38.502197	76.767395
2022-08-31 00:00:00	132.270004	120.874771	83.589600	37.974636	76.262733
2022-09-01 00:00:00	129.919998	120.637238	84.912003	36.680607	77.944923
2022-09-02 00:00:00	128.479996	121.775421	82.466057	37.895000	77.054359
2022-09-06 00:00:00	126.669998	121.240967	84.037025	37.360001	76.965294
2022-09-07 00:00:00	128.600006	122.646370	87.805367	37.060001	78.914665
2022-09-08 00:00:00	128.850006	124.348694	88.948799	38.169998	78.578232
2022-09-09 00:00:00	132.050003	126.367729	88.183205	39.650002	78.687065
2022-09-12 00:00:00	133.000000	127.604874	88.561028	40.150002	79.310478
2022-09-13 00:00:00	124.930000	125.585846	87.338051	38.470001	77.410591
2022-09-14 00:00:00	127.529999	125.674927	92.170280	40.240002	78.598015
2022-09-15 00:00:00	124.980003	126.595367	91.693031	39.630001	76.480431
2022-09-16 00:00:00	124.949997	125.150368	90.788223	38.369999	76.440849
2022-09-19 00:00:00	126.650002	126.298447	91.613487	38.970001	77.450165
2022-09-20 00:00:00	124.769997	125.942146	90.271202	38.500000	76.411163
2022-09-21 00:00:00	124.620003	124.319008	88.093712	37.580002	75.332581

2022-09-22 00:00:00	123.680000	123.695480	84.215996	38.230000	75.144569
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2022-09-26 00:00:00	119.739998	122.616684	84.325371	33.860001	72.383797
2022-09-27 00:00:00	120.339996	121.745728	83.798401	33.980000	70.968773
2022-09-28 00:00:00	118.930000	123.438156	86.612228	35.439999	71.760391
2022-09-29 00:00:00	114.839996	123.151131	86.075310	35.970001	68.653282
2022-09-30 00:00:00	112.980003	123.091751	83.778519	35.900002	67.287735
2022-10-03 00:00:00	117.220001	124.160645	85.130745	38.299999	68.999619
2022-10-04 00:00:00	122.370003	127.377243	88.004227	39.119999	69.949562
2022-10-05 00:00:00	124.889999	126.832893	89.605034	41.570000	68.010094
2022-10-06 00:00:00	125.279999	123.279793	88.839424	42.490002	65.041519
2022-10-07 00:00:00	120.910004	119.766281	86.532684	42.590000	63.448380
2022-10-11 00:00:00	110.029999	116.866402	85.717369	41.759998	62.973404
2022-10-12 00:00:00	108.639999	117.450333	86.373604	42.020000	60.855824
2022-10-13 00:00:00	112.860001	120.765900	88.859314	44.189999	63.379116
2022-10-14 00:00:00	109.949997	120.686729	85.876457	42.160000	62.844765
2022-10-17 00:00:00	111.589996	122.309868	88.391998	42.860001	63.606701
2022-10-18 00:00:00	111.209999	122.923492	88.451653	43.360001	64.705078
2022-10-19 00:00:00	112.849998	122.012947	87.019882	45.470001	64.012413
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2022-10-27 00:00:00	114.699997	124.699997	84.792686	51.680000	64.487381
2022-10-28 00:00:00	119.209999	125.570000	86.602280	50.450001	65.645119
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2022-11-01 00:00:00	117.330002	126.070000	86.602280	51.549999	64.843605
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2022-11-03 00:00:00	103.879997	125.430000	84.196114	51.799999	64.170731
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2022-11-10 00:00:00	120.680000	130.889999	96.260002	53.099998	65.021721
2022-11-11 00:00:00	121.430000	131.679993	97.379997	54.820000	64.408218
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2022-11-16 00:00:00	120.730003	131.520004	97.070000	52.990002	65.140472
2022-11-17 00:00:00	122.860001	132.320007	96.970001	52.830002	64.239998
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2022-11-22 00:00:00	123.650002	134.830002	98.430000	53.639999	65.949997
2022-11-23 00:00:00	125.150002	134.690002	99.519997	51.419998	66.360001

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2021-03-17 00:00:00	108.208496	19.717844	76.935692	172.951218
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2021-03-30 00:00:00	105.600296	20.097162	77.291138	193.552200
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2021-04-01 00:00:00	105.426414	19.927126	77.132118	194.589523
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2021-04-06 00:00:00	106.606964	20.260660	78.058151	199.155670
2021-04-07 00:00:00	107.082840	20.227959	78.254593	198.205582
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2021-04-09 00:00:00	107.267937	20.093168	78.264030	199.087814
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2021-04-16 00:00:00	108.387733	20.032969	78.264030	202.180389
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2021-04-23 00:00:00	108.202629	21.002842	79.519958	199.717926
2021-04-26 00:00:00	111.210320	20.675093	79.453857	197.410660
2021-04-27 00:00:00	113.237038	20.581450	79.878792	198.118362
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2021-05-17 00:00:00	113.125992	20.982777	83.448273	203.605469
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2021-06-02 00:00:00	125.110458	19.805548	82.711708	222.123932
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2021-06-04 00:00:00	122.408165	19.578127	83.061104	225.002808
2021-06-07 00:00:00	124.009163	19.451040	83.023323	224.565155
2021-06-08 00:00:00	125.591675	19.384155	83.089432	228.659836
2021-06-09 00:00:00	125.480637	19.404219	82.503967	225.586395
2021-06-10 00:00:00	124.508904	19.517931	82.230118	225.314072
2021-06-11 00:00:00	124.222038	19.611574	82.400085	226.558990
2021-06-14 00:00:00	123.342857	19.457729	82.088463	226.685425
2021-06-15 00:00:00	121.501228	19.584818	82.626724	226.199112
2021-06-16 00:00:00	120.982979	19.437668	82.947784	224.925003
2021-06-17 00:00:00	119.067329	19.223621	82.683372	224.886108
2021-06-18 00:00:00	115.985603	19.163425	82.239555	224.215027
2021-06-21 00:00:00	121.695572	19.350710	82.683372	227.366272
2021-06-22 00:00:00	120.538773	19.250378	82.267883	230.712036
2021-06-23 00:00:00	122.352654	19.163425	82.154572	230.809280
2021-06-24 00:00:00	120.881165	19.257067	82.315086	233.269974
2021-06-25 00:00:00	121.297638	19.323956	82.815575	233.960541
2021-06-28 00:00:00	120.492493	19.250378	82.069588	234.651077
2021-06-29 00:00:00	121.223610	19.170111	82.097908	235.224930
2021-06-30 00:00:00	120.751617	19.250378	82.031807	235.117935
2021-07-02 00:00:00	121.266144	19.551374	82.154572	239.825363
2021-07-06 00:00:00	119.404533	19.410910	82.390633	238.726288
2021-07-07 00:00:00	117.673904	19.350710	82.097908	240.768784
2021-07-08 00:00:00	117.019058	19.308556	79.810791	241.770569
2021-07-09 00:00:00	121.322273	19.493555	80.716110	241.770569
2021-07-12 00:00:00	121.864845	19.514114	81.049660	245.330322
2021-07-13 00:00:00	118.440987	19.370224	80.716110	244.853714
2021-07-14 00:00:00	119.226791	19.363375	80.668457	246.682220
2021-07-15 00:00:00	118.375504	19.479853	80.668457	246.001373
2021-07-16 00:00:00	116.467133	19.418188	80.068092	244.270172
2021-07-19 00:00:00	109.628777	19.041332	77.962044	244.240967
2021-07-20 00:00:00	117.524216	19.123554	78.467117	247.732651
2021-07-21 00:00:00	119.675819	19.116707	78.953125	249.035919
2021-07-22 00:00:00	117.028404	19.192074	78.533829	249.969635
2021-07-23 00:00:00	116.139709	19.288000	78.791122	253.879501
2021-07-26 00:00:00	118.833885	19.308556	78.800652	253.714157
2021-07-27 00:00:00	117.748741	19.322260	79.181831	251.282639
2021-07-28 00:00:00	117.140671	19.192074	79.334312	250.368408
2021-07-29 00:00:00	117.795509	19.383928	79.763145	254.492233
2021-07-30 00:00:00	118.356796	19.219484	79.048424	253.898941
2021-08-03 00:00:00	121.181931	19.315409	79.686913	255.017456
2021-08-04 00:00:00	120.396133	19.082445	79.467735	253.393204
2021-08-05 00:00:00	125.382248	19.144110	79.763145	254.239349

2021-08-06 00:00:00	126.476768	19.157816	80.792343	252.965256
2021-08-09 00:00:00	124.287735	19.082445	80.611275	255.221710
2021-08-10 00:00:00	123.586121	19.246889	81.707191	256.836212
2021-08-11 00:00:00	124.895798	19.294853	82.450500	255.805283
2021-08-12 00:00:00	125.213852	19.198925	82.383797	254.706223
2021-08-13 00:00:00	125.045464	19.315409	82.069328	254.375565
2021-08-16 00:00:00	122.519676	19.322260	82.212250	255.941437
2021-08-17 00:00:00	119.844208	19.315409	81.897789	248.524261
2021-08-18 00:00:00	119.741310	19.068741	81.621429	241.624344
2021-08-19 00:00:00	120.171631	18.863184	81.545189	239.506546
2021-08-20 00:00:00	120.461624	18.890594	82.078850	247.304321
2021-08-23 00:00:00	121.107109	18.856333	82.183678	246.455246
2021-08-24 00:00:00	124.007080	18.808371	81.735779	244.620483
2021-08-25 00:00:00	123.988373	18.794666	81.716721	245.108444
2021-08-26 00:00:00	122.585159	18.513737	79.763145	242.971161
2021-08-27 00:00:00	125.064194	18.589111	79.381958	243.185852
2021-08-30 00:00:00	124.802254	18.657631	78.867371	243.361511
2021-08-31 00:00:00	125.775139	18.787817	78.076401	241.038773
2021-09-01 00:00:00	127.047401	18.630222	78.266991	240.443436
2021-09-02 00:00:00	127.618027	18.938557	78.610054	239.896912
2021-09-03 00:00:00	126.991272	18.883739	78.571945	238.432999
2021-09-07 00:00:00	125.896759	18.787817	79.124657	236.881241
2021-09-08 00:00:00	125.007484	18.911146	78.638641	240.189713
2021-09-09 00:00:00	123.588463	18.787817	78.610054	239.535812
2021-09-10 00:00:00	120.996361	18.623373	78.333687	238.657455
2021-09-13 00:00:00	124.042542	18.856333	78.257469	237.252106
2021-09-14 00:00:00	122.566750	18.726149	77.914391	236.412781
2021-09-15 00:00:00	124.070923	18.890594	78.619583	238.267090
2021-09-16 00:00:00	125.508881	18.911146	79.038895	241.009491
2021-09-17 00:00:00	124.184448	18.863184	78.600525	240.736221
2021-09-20 00:00:00	122.528915	18.643925	78.009689	236.315201
2021-09-21 00:00:00	123.342499	18.472628	78.238396	235.505173
2021-09-22 00:00:00	126.426521	18.506889	78.333687	235.954102
2021-09-23 00:00:00	127.826645	18.630222	79.277130	236.832443
2021-09-24 00:00:00	126.625191	18.589111	79.343849	235.632034
2021-09-27 00:00:00	126.908989	18.774113	80.668457	232.840836
2021-09-28 00:00:00	126.492760	18.664480	80.963882	227.824493
2021-09-29 00:00:00	126.625191	18.774113	80.935295	230.176514
2021-09-30 00:00:00	122.954628	18.506889	79.906082	223.266815
2021-10-01 00:00:00	125.953522	18.609667	81.354599	222.925247
2021-10-04 00:00:00	125.111565	18.671335	81.078239	220.456085
2021-10-05 00:00:00	124.297981	18.739853	81.850143	222.085907
2021-10-06 00:00:00	125.452126	18.712442	81.478477	221.373489
2021-10-07 00:00:00	126.776543	19.041740	82.161400	224.291565
2021-10-08 00:00:00	124.950745	18.816809	82.998215	223.393692
2021-10-12 00:00:00	127.495537	17.874916	82.421104	224.701462
2021-10-13 00:00:00	129.747055	17.783539	81.795898	231.054871
2021-10-14 00:00:00	131.809402	18.008469	82.247963	236.266388

2021-10-15 00:00:00	132.651352	18.064701	83.690750	239.799332
2021-10-18 00:00:00	136.728714	17.804625	84.046623	247.548309
2021-10-19 00:00:00	135.129944	17.987383	85.297043	246.123444
2021-10-20 00:00:00	137.135513	18.212313	85.710625	245.772095
2021-10-21 00:00:00	136.189499	18.106876	85.383606	248.094849
2021-10-22 00:00:00	137.305786	17.917091	85.749107	249.773483
2021-10-25 00:00:00	138.904572	18.022526	86.124222	254.087173
2021-10-26 00:00:00	138.469391	17.832741	86.855232	252.506119
2021-10-27 00:00:00	136.161102	17.614841	86.345459	250.368820
2021-10-28 00:00:00	139.178925	17.959267	86.316597	252.008377
2021-10-29 00:00:00	138.668060	17.755423	86.412781	253.374741
2021-11-01 00:00:00	141.298004	17.832741	86.970657	251.715622
2021-11-02 00:00:00	150.408218	17.734335	86.912949	253.999313
2021-11-03 00:00:00	157.266891	17.699188	87.643967	254.145706
2021-11-04 00:00:00	156.765503	17.432083	87.797852	254.175003
2021-11-05 00:00:00	161.296936	17.642960	87.961365	248.153397
2021-11-08 00:00:00	158.354797	17.488316	88.269157	247.236008
2021-11-09 00:00:00	158.449417	17.368824	88.153740	249.022003
2021-11-10 00:00:00	155.119415	17.537521	88.701996	247.938690
2021-11-11 00:00:00	156.510071	17.516436	89.259865	249.851578
2021-11-12 00:00:00	155.904602	17.530493	89.827354	253.765076
2021-11-15 00:00:00	157.314194	17.432083	89.750412	257.971375
2021-11-16 00:00:00	155.970825	17.333677	89.673470	260.870087
2021-11-17 00:00:00	158.449417	17.333677	89.029022	248.540970
2021-11-18 00:00:00	160.237396	17.143894	88.750084	246.827209
2021-11-19 00:00:00	157.739883	16.961138	88.326874	245.505188
2021-11-22 00:00:00	158.922440	17.361794	89.413765	239.502228
2021-11-23 00:00:00	159.906296	17.403969	91.587555	244.016693
2021-11-24 00:00:00	159.906296	17.200125	92.116570	243.605392
2021-11-26 00:00:00	151.817780	17.024399	90.962341	241.460785
2021-11-29 00:00:00	151.306931	16.792442	90.019722	243.997101
2021-11-30 00:00:00	144.590164	16.047361	86.710968	238.787338
2021-12-01 00:00:00	139.746536	15.625615	88.471153	235.408844
2021-12-02 00:00:00	143.663071	16.202000	92.818718	240.412933
2021-12-03 00:00:00	141.137192	16.490189	91.943428	242.440063
2021-12-06 00:00:00	144.363144	16.363668	90.846916	237.935364
2021-12-07 00:00:00	147.816116	16.223085	91.279762	240.540253
2021-12-08 00:00:00	148.951340	16.286348	91.808777	234.635208
2021-12-09 00:00:00	145.547836	16.124680	91.799156	232.637466
2021-12-10 00:00:00	145.719925	16.054388	91.693352	233.244614
2021-12-13 00:00:00	144.457947	15.773226	91.462502	229.317719
2021-12-14 00:00:00	144.295410	15.667788	91.135483	230.404709
2021-12-15 00:00:00	145.356613	15.583442	91.597168	231.746323
2021-12-16 00:00:00	144.993332	16.665916	91.914574	220.122284
2021-12-17 00:00:00	144.104218	16.715120	90.529518	218.682739
2021-12-20 00:00:00	139.840256	17.003313	90.394859	214.648117
2021-12-21 00:00:00	147.679810	17.200125	91.087387	215.509888
2021-12-22 00:00:00	148.693192	17.418028	91.770309	213.228165

2021-12-23 00:00:00	148.626297	17.481291	92.539780	216.430405
2021-12-29 00:00:00	151.781219	17.319620	93.790192	223.197220
2021-12-30 00:00:00	153.004944	17.418028	93.530487	227.104553
2021-12-31 00:00:00	152.746826	17.291502	93.280411	226.644302
2022-01-04 00:00:00	155.815720	18.022526	95.559990	229.317719
2022-01-05 00:00:00	153.951431	18.423185	96.137100	224.117737
2022-01-06 00:00:00	155.987823	18.352894	96.723839	226.556152
2022-01-07 00:00:00	154.180878	18.979885	97.179947	225.997955
2022-01-10 00:00:00	153.808029	19.102617	96.782066	222.707596
2022-01-11 00:00:00	154.716263	19.015984	97.674873	222.834885
2022-01-12 00:00:00	154.811874	19.095398	98.431816	219.818710
2022-01-13 00:00:00	155.825287	19.348078	98.722954	221.150528
2022-01-14 00:00:00	148.855713	19.622417	99.431366	216.812317
2022-01-18 00:00:00	147.125305	19.716269	100.236839	215.451111
2022-01-19 00:00:00	142.058273	19.694611	98.625900	219.201767
2022-01-20 00:00:00	140.949265	19.506905	98.752068	217.125687
2022-01-21 00:00:00	140.499924	19.210907	97.335220	212.748337
2022-01-24 00:00:00	139.677734	19.015984	96.277435	216.009323
2022-01-25 00:00:00	140.327820	19.117054	96.917931	210.231552
2022-01-26 00:00:00	139.180588	17.507122	97.257584	207.323105
2022-01-27 00:00:00	137.564880	17.413271	97.713692	207.783386
2022-01-28 00:00:00	139.964523	18.200186	97.247879	213.159622
2022-01-31 00:00:00	140.729385	18.409552	98.800583	215.862427
2022-02-01 00:00:00	140.882339	17.629852	100.440628	214.687302
2022-02-02 00:00:00	142.976074	17.716486	102.061264	213.100845
2022-02-03 00:00:00	139.161484	17.730925	102.100082	208.801819
2022-02-04 00:00:00	138.798172	17.384392	102.497971	209.604813
2022-02-07 00:00:00	142.373764	17.276100	102.992882	206.911804
2022-02-08 00:00:00	135.796204	17.283319	104.332100	208.537415
2022-02-09 00:00:00	136.800034	17.687607	104.079788	212.150955
2022-02-10 00:00:00	137.650909	17.507122	104.652336	209.408981
2022-02-11 00:00:00	135.595428	17.420490	104.623222	207.176224
2022-02-14 00:00:00	133.750259	17.362736	103.128754	204.248184
2022-02-15 00:00:00	135.107864	17.572098	103.740135	203.766251
2022-02-16 00:00:00	137.536194	17.283319	104.564995	204.385864
2022-02-17 00:00:00	137.354538	17.153370	103.439285	200.638657
2022-02-18 00:00:00	134.754120	17.232784	103.089935	201.022217
2022-02-22 00:00:00	131.981583	17.146151	102.915253	193.114700
2022-02-23 00:00:00	128.176559	16.972885	101.556633	186.770966
2022-02-24 00:00:00	131.761719	16.770741	99.314911	188.393784
2022-02-25 00:00:00	133.559052	17.261662	101.585754	195.937408
2022-02-28 00:00:00	131.513123	17.102835	99.256683	196.478348
2022-03-01 00:00:00	128.683258	16.987320	95.986305	215.814392
2022-03-02 00:00:00	132.669952	17.196686	98.490036	221.194260
2022-03-03 00:00:00	133.281799	17.261662	95.394341	220.151733
2022-03-04 00:00:00	130.872589	17.232784	95.627243	220.407471
2022-03-07 00:00:00	122.631516	17.016199	94.317154	207.562637
2022-03-08 00:00:00	125.614357	16.604692	93.472862	205.369385

2022-03-09 00:00:00	128.354370	16.792398	95.530205	212.440918
2022-03-10 00:00:00	128.393097	16.741863	95.452568	211.241013
2022-03-11 00:00:00	125.914497	16.741863	95.161430	203.559708
2022-03-14 00:00:00	124.113647	16.525280	96.054237	205.320206
2022-03-15 00:00:00	124.781708	16.669668	96.966446	211.801636
2022-03-16 00:00:00	127.153801	16.741863	98.121277	212.037689
2022-03-17 00:00:00	127.463615	16.741863	99.169350	216.994629
2022-03-18 00:00:00	126.679375	16.763519	98.781181	222.325333
2022-03-21 00:00:00	124.955978	16.720203	99.761322	219.325577
2022-03-22 00:00:00	128.615784	16.756302	99.868073	219.099380
2022-03-23 00:00:00	125.875763	16.756302	98.072754	213.149048
2022-03-24 00:00:00	125.991959	16.842936	97.907784	213.463776
2022-03-25 00:00:00	126.030678	17.211126	98.800583	215.007919
2022-03-28 00:00:00	127.560440	17.232784	98.955856	215.902908
2022-03-29 00:00:00	133.689148	17.319418	98.567673	219.256729
2022-03-30 00:00:00	130.503754	17.427708	98.422112	218.302719
2022-03-31 00:00:00	127.376480	17.059517	96.258026	208.723206
2022-04-01 00:00:00	128.770676	17.312199	96.529762	207.070877
2022-04-04 00:00:00	130.252029	17.456587	97.519600	210.877121
2022-04-05 00:00:00	126.427643	17.247223	97.228470	211.250839
2022-04-06 00:00:00	123.794136	17.348295	96.209511	212.381912
2022-04-07 00:00:00	121.518867	17.131710	94.427299	224.430054
2022-04-08 00:00:00	123.416542	17.427708	94.721069	229.495209
2022-04-11 00:00:00	122.748482	18.763390	94.672112	225.531616
2022-04-12 00:00:00	122.167557	18.696480	92.625511	227.528152
2022-04-13 00:00:00	123.523041	18.830290	91.900887	229.967300
2022-04-14 00:00:00	123.813499	18.946646	92.037971	233.291595
2022-04-18 00:00:00	123.823181	18.869074	91.734413	235.445511
2022-04-19 00:00:00	127.144119	18.898165	92.488426	241.995789
2022-04-20 00:00:00	128.373718	18.839987	93.173889	245.211899
2022-04-21 00:00:00	126.689064	19.596298	92.703850	244.080841
2022-04-22 00:00:00	121.877098	18.927254	91.293770	237.697784
2022-04-25 00:00:00	122.274063	18.917557	91.127289	237.678116
2022-04-26 00:00:00	120.182747	18.713932	89.472397	232.603134
2022-04-27 00:00:00	118.246346	18.490917	88.777145	227.164246
2022-04-28 00:00:00	120.453850	18.830290	91.685448	232.494949
2022-04-29 00:00:00	114.247673	18.287294	90.862900	224.882477
2022-05-02 00:00:00	113.124557	18.539400	90.745384	225.993866
2022-05-03 00:00:00	117.026421	18.743023	91.724625	228.708374
2022-05-04 00:00:00	120.618439	19.344196	92.282784	233.517792
2022-05-05 00:00:00	118.449661	19.344196	91.411270	226.957703
2022-05-06 00:00:00	117.558922	19.421766	91.039162	221.499176
2022-05-09 00:00:00	114.431641	18.956341	90.569122	220.505798
2022-05-10 00:00:00	115.283653	18.772112	90.050133	215.499680
2022-05-11 00:00:00	109.416359	18.839987	90.745384	209.972290
2022-05-12 00:00:00	111.943359	19.121178	90.059937	213.690002
2022-05-13 00:00:00	113.066467	19.237535	90.010963	216.109467
2022-05-16 00:00:00	113.153618	19.664173	90.226395	215.637375

2022-05-17 00:00:00	116.919914	19.945368	91.930260	212.605499
2022-05-18 00:00:00	110.055367	19.615692	90.529961	159.602280
2022-05-19 00:00:00	106.540802	19.596298	89.854294	151.523880
2022-05-20 00:00:00	105.378960	19.780531	90.187225	153.429916
2022-05-24 00:00:00	104.420433	20.517452	90.500587	148.087112
2022-05-25 00:00:00	105.717834	20.653200	91.812759	154.476746
2022-05-26 00:00:00	108.467514	20.672594	93.252228	161.172516
2022-05-27 00:00:00	110.113464	20.643505	93.996437	165.063568
2022-05-31 00:00:00	111.004211	20.643505	94.652534	159.868912
2022-06-01 00:00:00	107.634865	20.575630	93.996437	154.575500
2022-06-02 00:00:00	108.748299	20.546541	94.799408	158.910965
2022-06-03 00:00:00	106.453659	20.265347	93.643913	159.039337
2022-06-06 00:00:00	106.134155	20.304134	93.878937	157.686371
2022-06-07 00:00:00	108.709572	20.498058	93.790802	154.042206
2022-06-08 00:00:00	106.045410	20.410791	92.880112	154.753265
2022-06-09 00:00:00	102.113068	20.245955	91.332924	152.629990
2022-06-10 00:00:00	99.547218	20.061724	89.717201	147.810608
2022-06-13 00:00:00	95.506737	19.159964	88.434402	143.010986
2022-06-14 00:00:00	94.877563	18.859379	87.494339	140.927185
2022-06-15 00:00:00	95.850815	18.849682	87.308296	145.608307
2022-06-16 00:00:00	93.019531	18.384256	84.380386	141.114822
2022-06-17 00:00:00	94.071434	18.791502	84.644783	137.569443
2022-06-21 00:00:00	94.956200	19.353889	85.692558	142.902344
2022-06-22 00:00:00	94.327026	19.702961	85.036469	139.060669
2022-06-23 00:00:00	95.064346	19.984154	82.265244	144.986130
2022-06-24 00:00:00	97.934959	20.352613	82.000847	148.551270
2022-06-27 00:00:00	98.426498	20.148993	83.087799	147.751343
2022-06-28 00:00:00	97.571213	19.984154	83.009460	142.724594
2022-06-29 00:00:00	95.614876	20.313829	83.126968	140.137115
2022-06-30 00:00:00	93.314453	20.323524	82.656944	139.475449
2022-07-05 00:00:00	95.919632	20.527147	82.079193	143.899811
2022-07-06 00:00:00	94.789078	20.449577	81.423111	143.010986
2022-07-07 00:00:00	96.224380	20.507755	81.601280	148.097000
2022-07-08 00:00:00	96.037605	20.437012	82.373344	146.151474
2022-07-11 00:00:00	95.575554	20.299456	81.007378	144.571350
2022-07-12 00:00:00	95.949120	20.240503	80.007660	142.764084
2022-07-13 00:00:00	93.943626	20.093121	79.027725	143.633148
2022-07-14 00:00:00	92.410019	19.975214	77.374718	144.472580
2022-07-15 00:00:00	94.730095	20.211025	78.087395	144.847870
2022-07-18 00:00:00	96.971527	20.171724	78.849564	147.504456
2022-07-19 00:00:00	100.540131	20.437012	81.145958	151.454758
2022-07-20 00:00:00	101.700172	20.122597	81.324127	154.555756
2022-07-21 00:00:00	102.476807	18.589821	81.403313	156.688919
2022-07-22 00:00:00	101.926285	18.078896	81.195450	155.780350
2022-07-25 00:00:00	102.270363	18.206627	81.630974	155.533447
2022-07-26 00:00:00	100.844887	17.980640	80.571861	149.924011
2022-07-27 00:00:00	102.358841	18.069069	81.601280	152.679352
2022-07-28 00:00:00	105.642342	18.255754	81.235039	157.439484

2022-07-29 00:00:00	106.802383	18.452265	82.333748	161.350281
2022-08-02 00:00:00	103.695839	18.039595	81.997208	161.449020
2022-08-03 00:00:00	105.121307	18.049419	83.076118	165.833878
2022-08-04 00:00:00	104.030083	17.951164	82.185272	164.490768
2022-08-05 00:00:00	104.698586	18.029768	82.591103	164.066132
2022-08-08 00:00:00	106.999001	17.685875	82.422829	164.895691
2022-08-09 00:00:00	106.183044	17.784130	81.937820	163.068665
2022-08-10 00:00:00	109.496033	17.695702	83.858086	167.562149
2022-08-11 00:00:00	112.140533	17.725178	84.461876	167.493011
2022-08-12 00:00:00	113.890427	17.951164	85.570480	170.337219
2022-08-15 00:00:00	111.334404	18.069069	86.243561	171.235916
2022-08-16 00:00:00	112.582924	18.245928	87.569931	179.066803
2022-08-17 00:00:00	110.931335	18.098547	87.381859	174.247040
2022-08-18 00:00:00	111.413055	18.108372	87.500641	171.971313
2022-08-19 00:00:00	109.132301	18.108372	86.560303	165.998764
2022-08-22 00:00:00	104.934517	17.813606	84.907295	160.950439
2022-08-23 00:00:00	105.032829	17.744827	84.917198	160.960373
2022-08-24 00:00:00	104.875534	17.695702	84.560860	162.113144
2022-08-25 00:00:00	106.409149	17.774305	85.184448	166.455902
2022-08-26 00:00:00	103.076492	17.577795	85.986214	159.618790
2022-08-29 00:00:00	101.896790	17.469715	85.253731	157.700821
2022-08-30 00:00:00	102.034424	17.509016	84.630142	159.777786
2022-08-31 00:00:00	100.255043	17.233904	83.630417	159.340530
2022-09-01 00:00:00	99.616035	17.194601	83.650223	163.812485
2022-09-02 00:00:00	98.829559	16.890013	84.659836	163.573990
2022-09-06 00:00:00	99.330940	16.496992	83.254288	162.560349
2022-09-07 00:00:00	101.709999	16.575596	84.263908	169.725388
2022-09-08 00:00:00	102.540001	16.477341	85.342819	170.828476
2022-09-09 00:00:00	103.769997	16.732803	87.173996	172.567566
2022-09-12 00:00:00	105.250000	17.076694	88.153923	172.766327
2022-09-13 00:00:00	100.410004	16.536293	86.203964	165.203766
2022-09-14 00:00:00	100.029999	16.477341	86.718681	164.349121
2022-09-15 00:00:00	99.540001	16.467516	87.114609	163.981415
2022-09-16 00:00:00	99.699997	16.447865	87.035423	163.067154
2022-09-19 00:00:00	100.279999	16.467516	87.461052	163.732986
2022-09-20 00:00:00	98.320000	16.271006	86.896851	159.032471
2022-09-21 00:00:00	95.650002	15.966415	85.174553	158.038696
2022-09-22 00:00:00	92.180000	15.956590	85.342819	152.006546
2022-09-23 00:00:00	90.180000	15.730604	83.511642	151.658722
2022-09-26 00:00:00	87.360001	15.396538	84.075844	147.783035
2022-09-27 00:00:00	89.029999	15.455490	83.541336	147.544525
2022-09-28 00:00:00	92.529999	15.553745	84.580650	154.898392
2022-09-29 00:00:00	89.129997	15.258981	84.095642	150.843826
2022-09-30 00:00:00	89.750000	15.072296	83.858086	147.465027
2022-10-03 00:00:00	90.980003	15.622523	85.491295	150.843826
2022-10-04 00:00:00	95.870003	15.809208	87.094810	155.981613
2022-10-05 00:00:00	95.769997	15.652000	86.590004	155.435043
2022-10-06 00:00:00	94.680000	15.320000	83.430000	154.779144

2022-10-07 00:00:00	92.540001	14.940000	82.239998	151.390396
2022-10-11 00:00:00	94.820000	14.810000	80.830002	153.536942
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2022-10-13 00:00:00	95.830002	15.120000	84.309998	153.159302
2022-10-14 00:00:00	95.860001	14.990000	84.910004	144.781860
2022-10-17 00:00:00	99.150002	15.310000	85.379997	148.319672
2022-10-18 00:00:00	98.660004	15.600000	86.680000	156.249924
2022-10-19 00:00:00	98.029999	15.540000	85.709999	154.421387
2022-10-20 00:00:00	98.309998	16.740000	84.919998	153.437561
2022-10-21 00:00:00	101.040001	17.100000	86.260002	158.197708
2022-10-24 00:00:00	102.389999	17.510000	86.570000	160.811325
2022-10-25 00:00:00	105.839996	17.690001	87.290001	164.766510
2022-10-26 00:00:00	105.529999	18.139999	87.110001	165.730453
2022-10-27 00:00:00	106.389999	18.030001	87.269997	165.859634
2022-10-28 00:00:00	108.959999	18.480000	87.709999	166.475784
2022-10-31 00:00:00	108.980003	18.230000	87.190002	163.226166
2022-11-01 00:00:00	113.839996	18.350000	87.750000	163.564041
2022-11-02 00:00:00	111.610001	18.430000	87.050003	159.201401
2022-11-03 00:00:00	112.580002	18.170000	86.769997	158.803909
2022-11-04 00:00:00	115.570000	18.320000	87.970001	158.634964
2022-11-07 00:00:00	116.870003	18.360001	88.360001	158.873459
2022-11-08 00:00:00	115.419998	18.570000	88.459999	160.612549
2022-11-09 00:00:00	112.919998	18.379999	87.599998	152.036362
2022-11-10 00:00:00	120.040001	18.840000	89.290001	163.355362
2022-11-11 00:00:00	120.199997	19.049999	88.440002	172.239639
2022-11-14 00:00:00	117.529999	19.059999	87.900002	172.179993
2022-11-15 00:00:00	120.160004	19.020000	87.720001	178.979996
2022-11-16 00:00:00	115.589996	18.930000	88.129997	155.470001
2022-11-17 00:00:00	115.790001	18.950001	88.730003	162.009995
2022-11-18 00:00:00	117.900002	18.969999	89.419998	162.880005
2022-11-21 00:00:00	117.180000	18.840000	89.760002	158.020004
2022-11-22 00:00:00	119.379997	19.000000	90.739998	157.860001
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Date	TXN	UNH	UNP	UPS	USB
2021-03-16 00:00:00	169.330276	347.556396	205.282028	155.261246	50.686966
2021-03-17 00:00:00	171.442841	345.184448	205.863831	153.191971	51.298893
2021-03-18 00:00:00	166.672836	354.858337	208.831070	152.762878	52.974648
2021-03-19 00:00:00	168.221390	358.318268	204.409302	151.895126	51.976727
2021-03-22 00:00:00	172.159775	359.572845	200.016647	153.582932	51.063541
2021-03-23 00:00:00	170.897964	361.180237	201.742676	152.438660	50.442188
2021-03-24 00:00:00	171.012665	363.238556	206.445633	152.486343	50.338631
2021-03-25 00:00:00	170.620743	363.718811	209.538940	155.671280	51.675465
2021-03-26 00:00:00	179.902649	369.001770	216.161880	160.181686	52.918163
2021-03-29 00:00:00	177.971710	371.530487	216.220062	160.334259	52.343887
2021-03-30 00:00:00	177.742279	366.139709	214.426163	160.811050	52.998421
2021-03-31 00:00:00	180.657822	364.679382	213.727966	162.098373	52.467205

2021-04-01	00:00:00	183.592468	359.778656	213.534027	163.328476	52.960480
2021-04-05	00:00:00	188.247772	362.826904	216.695206	163.967377	53.472725
2021-04-06	00:00:00	186.010910	357.132294	214.397049	164.940018	53.339916
2021-04-07	00:00:00	184.577057	358.377075	214.629761	163.967377	53.890114
2021-04-08	00:00:00	186.594055	357.641968	213.504913	164.987732	53.861649
2021-04-09	00:00:00	186.813904	368.825287	216.472183	167.772171	54.345440
2021-04-12	00:00:00	183.946136	368.805695	216.772766	170.289581	54.715389
2021-04-13	00:00:00	182.808640	367.061066	215.260071	171.090607	53.719364
2021-04-14	00:00:00	181.938736	368.168640	215.851578	168.029633	54.620533
2021-04-15	00:00:00	184.653519	382.263031	216.336411	171.300385	53.434784
2021-04-16	00:00:00	183.468201	383.243164	215.958221	171.367157	54.886143
2021-04-19	00:00:00	178.812912	382.096375	216.695206	169.793747	54.753338
2021-04-20	00:00:00	177.101837	388.653473	213.980072	171.348068	53.330437
2021-04-21	00:00:00	180.571793	390.888214	216.656403	170.280060	54.060860
2021-04-22	00:00:00	177.608475	388.663300	211.371613	169.269272	53.273514
2021-04-23	00:00:00	180.495300	392.358429	216.763077	170.651947	54.288521
2021-04-26	00:00:00	182.923340	387.996826	217.781250	167.648193	54.819744
2021-04-27	00:00:00	181.824051	386.663788	218.886658	185.117722	55.322502
2021-04-28	00:00:00	173.803940	386.752014	219.332748	189.160858	55.939095
2021-04-29	00:00:00	177.627563	393.573761	217.674576	194.262512	56.944607
2021-04-30	00:00:00	173.504074	390.878387	215.357040	194.395981	56.299557
2021-05-03	00:00:00	171.860458	397.837341	216.957001	202.348816	56.242638
2021-05-04	00:00:00	172.081528	403.169281	218.828506	204.360870	57.485310
2021-05-05	00:00:00	174.599823	404.306244	216.782471	204.561111	57.286110
2021-05-06	00:00:00	177.118149	406.727173	220.321823	204.809052	58.282143
2021-05-07	00:00:00	180.472687	409.353943	222.522980	207.402756	58.215740
2021-05-10	00:00:00	174.984329	412.529602	221.514542	206.096375	58.026016
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2021-05-12	00:00:00	169.745850	397.317902	215.269760	200.918472	56.498760
2021-05-13	00:00:00	172.043091	400.444519	218.353348	205.657730	57.959618
2021-05-14	00:00:00	176.156967	401.659882	220.952103	206.334778	58.727978
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2021-05-18	00:00:00	171.927704	402.228394	215.696426	204.055725	57.722462
2021-05-19	00:00:00	174.667114	401.365814	215.560669	204.399017	56.982555
2021-05-20	00:00:00	178.108170	400.522949	215.221283	204.008057	56.565170
2021-05-21	00:00:00	177.829422	403.453552	214.804321	203.001999	57.267132
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2021-05-26	00:00:00	181.049393	405.002167	217.063690	204.860794	56.660027
2021-05-27	00:00:00	181.789536	404.502319	218.154938	203.893082	57.618122
2021-05-28	00:00:00	182.452744	403.737793	218.963638	205.617752	57.656063
2021-06-01	00:00:00	181.664566	398.641052	219.255951	204.362549	57.855267
2021-06-02	00:00:00	183.346649	397.788361	218.690826	203.040329	57.551716
2021-06-03	00:00:00	178.780991	399.856476	219.177979	203.107391	57.523258
2021-06-04	00:00:00	182.693039	397.582550	220.366699	201.813889	57.646572
2021-06-07	00:00:00	181.232040	392.299591	217.229309	204.008057	57.428391
2021-06-08	00:00:00	179.674911	393.760010	216.138062	200.980316	57.191254
2021-06-09	00:00:00	179.213531	393.132690	215.816528	192.644455	56.204700
2021-06-10	00:00:00	180.703400	393.514954	213.955521	194.694885	55.597591

2021-06-11	00:00:00	181.347382	389.986450	215.650894	194.694885	56.100353
2021-06-14	00:00:00	182.875671	391.231262	216.907776	192.673218	55.170723
2021-06-15	00:00:00	181.289703	392.329010	217.122131	193.870880	55.502731
2021-06-16	00:00:00	180.443848	389.359192	216.362152	192.031235	55.436329
2021-06-17	00:00:00	180.366959	389.457214	213.448868	189.760437	52.856133
2021-06-18	00:00:00	175.964737	383.033447	209.298172	189.492157	51.926502
2021-06-21	00:00:00	178.886734	391.591858	211.928894	194.809875	53.102764
2021-06-22	00:00:00	179.780640	392.201813	213.370926	196.802811	53.064819
2021-06-23	00:00:00	178.877121	389.122711	213.487839	195.480576	53.254547
2021-06-24	00:00:00	181.289703	392.378876	212.864258	197.473511	53.956516
2021-06-25	00:00:00	180.866791	398.359955	215.592422	197.004013	54.876652
2021-06-28	00:00:00	184.096375	394.926727	213.507355	196.639908	54.582596
2021-06-29	00:00:00	185.393982	391.621399	213.039642	198.920303	54.143024
2021-06-30	00:00:00	184.836487	393.923309	214.286789	199.265244	54.439247
2021-07-02	00:00:00	184.749985	402.698181	218.953888	202.676208	55.012600
2021-07-06	00:00:00	183.779175	403.583496	218.067245	202.446259	53.521896
2021-07-07	00:00:00	182.414291	404.960754	222.490753	205.291946	53.502781
2021-07-08	00:00:00	180.934067	403.278564	212.737595	203.193649	52.594986
2021-07-09	00:00:00	182.885269	405.403381	216.001633	204.966202	54.439247
2021-07-12	00:00:00	184.471222	409.269470	215.543716	204.400894	55.022152
2021-07-13	00:00:00	183.779175	411.728760	213.556030	202.427109	54.391468
2021-07-14	00:00:00	183.856079	407.990570	214.403732	202.676208	54.458366
2021-07-15	00:00:00	180.953293	413.214172	214.296570	203.950562	56.207069
2021-07-16	00:00:00	178.896347	412.869904	212.815552	201.756424	54.630367
2021-07-19	00:00:00	179.011703	402.403015	208.840240	202.561249	52.088528
2021-07-20	00:00:00	180.482330	406.249390	209.950989	203.567322	53.598343
2021-07-21	00:00:00	186.701218	407.892242	211.617096	203.557724	54.659035
2021-07-22	00:00:00	176.772125	409.003815	213.906799	204.305069	53.330776
2021-07-23	00:00:00	180.599670	410.902435	214.501160	202.781631	53.244778
2021-07-26	00:00:00	181.962494	406.810150	214.540131	201.076141	53.684341
2021-07-27	00:00:00	178.937195	408.344727	212.435547	187.020172	53.655678
2021-07-28	00:00:00	180.599670	402.511261	211.003281	184.001999	53.550564
2021-07-29	00:00:00	183.479965	405.373840	211.743774	183.781647	53.932793
2021-07-30	00:00:00	184.243546	405.511597	213.146820	183.350464	53.072773
2021-08-03	00:00:00	183.006363	415.034058	214.413467	186.023682	53.407227
2021-08-04	00:00:00	185.944687	414.679932	212.036057	182.804321	52.614098
2021-08-05	00:00:00	186.698578	404.498383	213.536560	182.449783	53.330776
2021-08-06	00:00:00	186.505280	408.364441	214.842178	184.538574	54.467918
2021-08-09	00:00:00	184.079224	404.183594	214.306274	182.986359	54.506142
2021-08-10	00:00:00	183.305984	405.078766	216.021149	182.631851	55.108154
2021-08-11	00:00:00	183.161011	401.104492	220.581055	184.346924	56.178402
2021-08-12	00:00:00	181.585526	399.353455	221.818466	185.535019	56.235729
2021-08-13	00:00:00	182.387772	403.003113	221.954865	185.860794	55.633720
2021-08-16	00:00:00	183.499298	410.420410	221.652847	188.821442	55.012600
2021-08-17	00:00:00	180.087387	414.916016	220.064651	189.482590	54.238575
2021-08-18	00:00:00	177.651688	410.528625	219.051331	186.646515	53.560116
2021-08-19	00:00:00	178.850204	420.926605	218.028275	185.937439	52.881660
2021-08-20	00:00:00	178.782547	422.716949	217.969818	186.130112	53.206558

2021-08-23 00:00:00	181.566208	418.437744	218.038025	185.898926	53.674789
2021-08-24 00:00:00	181.537216	416.519501	215.572952	186.158981	54.286362
2021-08-25 00:00:00	181.798187	412.909210	215.611893	185.773697	55.079487
2021-08-26 00:00:00	181.682190	410.066254	215.309845	185.282471	54.697254
2021-08-27 00:00:00	184.146896	411.945190	215.748306	186.187897	55.710167
2021-08-30 00:00:00	185.026443	411.492645	214.495102	186.871765	54.544369
2021-08-31 00:00:00	184.523849	409.495697	212.301987	188.432144	54.840591
2021-09-01 00:00:00	182.049500	410.558105	212.390091	189.173813	53.674789
2021-09-02 00:00:00	183.074020	416.814636	212.977539	190.897980	53.932793
2021-09-03 00:00:00	183.528320	415.978455	210.412384	190.079254	53.655678
2021-09-07 00:00:00	183.122360	414.384796	208.542343	188.364731	53.349895
2021-09-08 00:00:00	182.484436	408.630035	210.745255	187.411163	52.881660
2021-09-09 00:00:00	182.165482	407.803680	205.654083	182.055710	53.340332
2021-09-10 00:00:00	184.272537	398.731506	203.411987	186.149353	52.986774
2021-09-13 00:00:00	187.491150	409.205475	202.423141	187.237762	54.028355
2021-09-14 00:00:00	188.583359	407.250854	199.153046	183.982117	53.426338
2021-09-15 00:00:00	190.893417	412.167023	199.975449	186.236053	55.232380
2021-09-16 00:00:00	190.236160	411.495758	199.182419	185.870010	54.563477
2021-09-17 00:00:00	189.685211	414.773193	197.253647	183.038208	54.477470
2021-09-20 00:00:00	186.147659	407.408844	193.728989	182.421738	53.206558
2021-09-21 00:00:00	186.505280	407.053467	192.495361	182.749222	54.563477
2021-09-22 00:00:00	189.366272	403.460114	193.924805	178.482239	55.347046
2021-09-23 00:00:00	192.024277	402.798676	197.498428	179.917404	56.656185
2021-09-24 00:00:00	193.938034	401.860870	199.534882	181.102158	57.133984
2021-09-27 00:00:00	193.628738	400.074066	199.691544	179.965561	58.385788
2021-09-28 00:00:00	188.370712	393.509338	196.910965	179.888504	57.735992
2021-09-29 00:00:00	186.611603	395.276428	197.459244	177.942856	58.024864
2021-09-30 00:00:00	185.780365	385.730347	191.907913	175.399979	57.235279
2021-10-01 00:00:00	187.307495	387.398712	197.517990	174.812408	58.506317
2021-10-04 00:00:00	184.030899	382.048187	201.209091	171.855377	58.284847
2021-10-05 00:00:00	187.394516	388.385864	205.575760	173.059372	59.016663
2021-10-06 00:00:00	187.887436	389.195374	207.994049	174.051483	59.170731
2021-10-07 00:00:00	188.776657	399.511414	207.445786	174.918381	59.584774
2021-10-08 00:00:00	188.709000	403.223175	211.949509	176.738846	60.018089
2021-10-12 00:00:00	182.175140	398.070099	208.943787	175.294037	59.372940
2021-10-13 00:00:00	180.841309	398.376129	211.332718	177.287857	59.180355
2021-10-14 00:00:00	186.051025	414.970612	216.707809	184.377060	57.851543
2021-10-15 00:00:00	187.945419	422.581787	220.447861	186.621323	57.995979
2021-10-18 00:00:00	188.390045	419.175995	221.201736	186.274582	58.333000
2021-10-19 00:00:00	191.598969	418.939117	221.035278	186.659836	59.074436
2021-10-20 00:00:00	192.710526	429.511810	223.238205	188.085419	60.258816
2021-10-21 00:00:00	194.556610	436.609589	226.439758	192.101974	59.873650
2021-10-22 00:00:00	192.410904	443.401337	232.617722	196.311188	60.412880
2021-10-25 00:00:00	193.503082	443.727142	235.251434	196.397873	60.201038
2021-10-26 00:00:00	190.390808	448.811127	235.682236	210.046539	60.124004
2021-10-27 00:00:00	180.841309	447.666016	234.370285	204.402130	58.044125
2021-10-28 00:00:00	181.585526	449.600861	237.229156	206.029953	58.670013
2021-10-29 00:00:00	182.324646	454.566376	236.347992	205.615768	58.130787

2021-11-01 00:00:00	182.314911	448.287903	234.448593	203.140320	58.525574
2021-11-02 00:00:00	184.133499	446.244446	235.408081	201.445084	58.602612
2021-11-03 00:00:00	183.987610	451.466614	234.448593	204.912628	59.536633
2021-11-04 00:00:00	185.854828	450.903931	232.235886	202.966949	58.044125
2021-11-05 00:00:00	188.081848	449.966125	233.831772	200.558929	58.438911
2021-11-08 00:00:00	187.070450	456.688782	234.438797	201.599213	58.438911
2021-11-09 00:00:00	185.543625	458.396637	235.956375	202.234924	57.841911
2021-11-10 00:00:00	181.877274	454.003662	236.485062	203.853088	58.246338
2021-11-11 00:00:00	183.413864	451.525879	235.525574	205.442398	58.525574
2021-11-12 00:00:00	184.853149	453.105377	237.366226	205.346069	58.255966
2021-11-15 00:00:00	184.026520	445.020325	236.406754	203.737518	58.217449
2021-11-16 00:00:00	183.336044	443.855469	236.426315	204.074631	58.275223
2021-11-17 00:00:00	184.357178	443.194092	234.732513	200.202545	57.119732
2021-11-18 00:00:00	188.149933	443.707397	235.212265	199.836533	56.474583
2021-11-19 00:00:00	189.793472	434.358826	236.259872	201.791809	55.453899
2021-11-22 00:00:00	187.206604	431.930359	238.805481	204.124619	56.792343
2021-11-23 00:00:00	187.342758	441.397430	242.193054	205.024826	57.841911
2021-11-24 00:00:00	188.276352	444.388550	241.439178	201.791809	57.620445
2021-11-26 00:00:00	183.083191	434.269958	234.771683	198.723358	55.367233
2021-11-29 00:00:00	189.034912	446.204956	234.448593	198.084518	55.270947
2021-11-30 00:00:00	187.080170	438.524719	230.708542	192.015350	53.287354
2021-12-01 00:00:00	186.486938	438.643158	228.368546	187.930542	52.815529
2021-12-02 00:00:00	188.256912	440.301636	235.055618	193.496338	54.500618
2021-12-03 00:00:00	188.062393	445.006042	235.398285	194.299759	53.528084
2021-12-06 00:00:00	189.258591	455.692413	240.910461	195.587158	54.770237
2021-12-07 00:00:00	193.557037	460.268066	242.290955	198.810471	55.550186
2021-12-08 00:00:00	190.989639	464.358398	242.418243	198.161957	54.924301
2021-12-09 00:00:00	188.081848	468.775604	242.075562	199.923645	55.087990
2021-12-10 00:00:00	190.610352	473.638458	243.260239	202.411316	55.627224
2021-12-13 00:00:00	187.926270	473.549347	240.597183	199.701019	54.712463
2021-12-14 00:00:00	185.037933	474.856628	239.490829	197.213333	55.184284
2021-12-15 00:00:00	188.120743	489.633392	241.948273	199.178314	54.635429
2021-12-16 00:00:00	183.063766	488.127991	243.152557	201.307846	55.299835
2021-12-17 00:00:00	181.177094	482.443085	238.745361	199.972046	53.662888
2021-12-20 00:00:00	179.173737	479.085663	236.728699	195.945297	52.834785
2021-12-21 00:00:00	181.245148	482.532227	238.283005	200.465714	53.768810
2021-12-22 00:00:00	181.789749	489.385773	238.942108	201.762772	53.990273
2021-12-23 00:00:00	182.246841	490.623779	241.647430	205.392654	54.221375
2021-12-29 00:00:00	185.563080	500.725861	246.949799	207.725464	54.500618
2021-12-30 00:00:00	184.201569	499.586884	245.484009	207.047882	54.510330
2021-12-31 00:00:00	183.287430	497.318909	247.835175	207.473770	54.529743
2022-01-04 00:00:00	185.553360	486.186798	247.933548	210.329269	57.053822
2022-01-05 00:00:00	181.682800	484.988434	248.681198	207.686722	56.752869
2022-01-06 00:00:00	181.624435	465.140808	249.369827	209.700089	58.296440
2022-01-07 00:00:00	174.505722	454.196930	250.638855	211.171417	59.218700
2022-01-10 00:00:00	177.928940	460.535492	246.211990	204.947372	59.568192
2022-01-11 00:00:00	179.562729	464.497040	242.414719	204.502136	60.305992
2022-01-12 00:00:00	180.914520	469.171753	242.985306	204.453735	60.665188

2022-01-13	00:00:00	179.086197	462.942139	243.595215	203.727737	61.344746
2022-01-14	00:00:00	181.867584	464.190033	242.267181	199.923645	61.402996
2022-01-18	00:00:00	177.267654	456.563965	234.170944	199.004074	60.373951
2022-01-19	00:00:00	173.397079	458.079285	235.597382	197.232697	55.694702
2022-01-20	00:00:00	168.680450	458.554657	238.135452	195.809784	55.277260
2022-01-21	00:00:00	170.810226	456.742279	242.326202	195.480682	53.490986
2022-01-24	00:00:00	173.435974	457.831696	241.116196	197.590836	55.151058
2022-01-25	00:00:00	169.176422	452.453827	240.152130	195.471008	55.733536
2022-01-26	00:00:00	173.426239	454.028564	240.899780	192.625183	55.879158
2022-01-27	00:00:00	170.003052	457.168121	240.614471	188.588760	55.762657
2022-01-28	00:00:00	173.556580	461.585297	241.932693	191.899200	56.383968
2022-01-31	00:00:00	175.710281	468.032806	240.575134	195.732361	56.490753
2022-02-01	00:00:00	177.472366	463.912750	242.700043	223.300018	57.539219
2022-02-02	00:00:00	183.884430	475.173584	247.176071	224.674530	58.024616
2022-02-03	00:00:00	171.892410	484.077240	240.378387	221.364105	57.422726
2022-02-04	00:00:00	167.810211	478.531036	238.450241	217.589020	57.956665
2022-02-07	00:00:00	166.371170	479.055939	237.230392	217.850357	57.840164
2022-02-08	00:00:00	168.994736	488.672729	239.001129	217.985886	57.840164
2022-02-09	00:00:00	172.988815	493.317688	242.483597	217.860062	58.005203
2022-02-10	00:00:00	167.066208	482.046936	238.184631	213.610687	57.480968
2022-02-11	00:00:00	160.938034	473.539429	234.928421	206.651001	56.840244
2022-02-14	00:00:00	159.048676	469.845215	238.607635	207.135010	56.180099
2022-02-15	00:00:00	162.670761	473.638458	245.267624	210.300232	56.898491
2022-02-16	00:00:00	164.697189	475.440948	249.684616	208.412689	56.888783
2022-02-17	00:00:00	161.182770	465.824188	246.910461	203.960068	55.461712
2022-02-18	00:00:00	163.228775	463.318512	247.107208	204.125809	55.432583
2022-02-22	00:00:00	163.179825	458.069397	242.267181	203.745560	56.112144
2022-02-23	00:00:00	162.151932	455.207123	240.840759	199.367813	54.995728
2022-02-24	00:00:00	166.018738	451.512939	238.155106	202.010056	53.714275
2022-02-25	00:00:00	167.222870	471.182251	243.592224	204.701065	55.665577
2022-02-28	00:00:00	166.410339	471.301117	243.137482	205.159302	54.888939
2022-03-01	00:00:00	163.767181	471.677460	239.657730	200.440323	52.287197
2022-03-02	00:00:00	166.518021	480.719788	249.484070	206.173325	54.587990
2022-03-03	00:00:00	167.399048	481.918182	252.538742	207.119049	54.665653
2022-03-04	00:00:00	166.400528	493.862366	261.603882	205.130051	53.636612
2022-03-07	00:00:00	161.417725	482.195496	258.470123	196.150314	51.549393
2022-03-08	00:00:00	163.816147	468.914246	250.571487	198.324570	51.695011
2022-03-09	00:00:00	168.828308	480.907990	250.769196	201.610321	52.918221
2022-03-10	00:00:00	169.112213	486.721619	256.680817	202.000305	51.442608
2022-03-11	00:00:00	166.772537	479.649109	258.529419	198.802307	51.112534
2022-03-14	00:00:00	163.209183	484.665436	254.713562	199.192322	52.374577
2022-03-15	00:00:00	168.691269	494.588806	257.155334	205.266571	52.811432
2022-03-16	00:00:00	172.616821	494.936462	261.129364	212.452301	54.636532
2022-03-17	00:00:00	174.711761	503.638000	260.546112	216.761810	54.995728
2022-03-18	00:00:00	176.307434	502.744019	258.331726	214.285309	54.879230
2022-03-21	00:00:00	176.659851	504.273743	261.485260	213.095810	54.520035
2022-03-22	00:00:00	178.510056	501.949371	262.819794	212.959290	55.354919
2022-03-23	00:00:00	175.308914	499.873291	264.618988	209.215302	54.219090

2022-03-24 00:00:00	180.330887	510.035065	267.120056	209.293304	54.413246
2022-03-25 00:00:00	181.006348	509.607941	270.253815	209.966064	55.452003
2022-03-28 00:00:00	181.769913	509.776794	272.191406	214.061050	55.053974
2022-03-29 00:00:00	186.987671	507.323273	270.481171	216.888550	55.209301
2022-03-30 00:00:00	183.502640	517.345947	273.525970	214.694794	54.005486
2022-03-31 00:00:00	179.616257	506.568329	270.085754	209.098328	52.018696
2022-04-01 00:00:00	178.245743	509.170868	256.987274	201.473816	51.774017
2022-04-04 00:00:00	178.862488	506.618011	254.792648	200.079575	51.539124
2022-04-05 00:00:00	173.448898	514.306396	249.227051	192.279572	51.871887
2022-04-06 00:00:00	173.517441	528.203064	240.152008	189.530075	51.842525
2022-04-07 00:00:00	173.860092	533.368347	242.059952	187.882324	51.460831
2022-04-08 00:00:00	170.443558	542.318298	239.212891	186.195587	51.137852
2022-04-11 00:00:00	168.319275	533.855103	240.329971	186.068817	50.619133
2022-04-12 00:00:00	169.356949	530.150024	242.257660	183.192596	49.738285
2022-04-13 00:00:00	171.422516	533.418030	241.832581	184.148071	49.532757
2022-04-14 00:00:00	170.003052	531.252563	243.394516	183.319321	51.588058
2022-04-18 00:00:00	172.841980	530.517517	239.351288	182.480835	51.617424
2022-04-19 00:00:00	175.289322	534.113403	242.811249	185.922577	51.754440
2022-04-20 00:00:00	175.641739	542.367920	244.244690	185.669067	51.920822
2022-04-21 00:00:00	173.497864	533.855103	241.605209	184.079834	51.519547
2022-04-22 00:00:00	169.660416	517.465210	231.620697	182.471069	49.748077
2022-04-25 00:00:00	170.247787	520.773010	233.716461	184.898834	49.757866
2022-04-26 00:00:00	164.892975	510.352966	230.918823	178.473587	48.965099
2022-04-27 00:00:00	165.822952	510.382721	234.082230	181.739838	48.583405
2022-04-28 00:00:00	172.146927	520.921936	236.514099	185.405838	48.974892
2022-04-29 00:00:00	166.664856	505.157806	231.610809	175.480331	47.526394
2022-05-02 00:00:00	170.335876	497.807159	230.207047	174.115341	47.810219
2022-05-03 00:00:00	168.906616	496.287384	229.445862	173.666824	48.417027
2022-05-04 00:00:00	172.518921	504.234009	234.378799	179.204834	49.454460
2022-05-05 00:00:00	166.694214	491.420044	228.832947	175.295090	48.191921
2022-05-06 00:00:00	165.038422	496.287384	226.964569	175.421829	48.240852
2022-05-09 00:00:00	162.564575	483.175446	222.674194	176.894089	48.387661
2022-05-10 00:00:00	165.817047	484.754822	220.054504	177.459579	48.309368
2022-05-11 00:00:00	162.318161	482.907227	221.319870	173.023346	47.428520
2022-05-12 00:00:00	163.510727	475.606232	223.346420	174.183578	47.555756
2022-05-13 00:00:00	167.295425	482.162201	228.121170	175.078445	47.565540
2022-05-16 00:00:00	166.073288	485.956757	225.283997	176.779678	47.242565
2022-05-17 00:00:00	172.459961	489.244659	229.534836	180.093613	48.593193
2022-05-18 00:00:00	167.847366	468.235748	222.417175	169.365097	48.054897
2022-05-19 00:00:00	165.205948	475.357910	214.024261	164.605606	48.191921
2022-05-20 00:00:00	167.364426	482.490021	211.137650	168.194885	48.162556
2022-05-24 00:00:00	165.442505	494.241089	214.607498	171.213821	49.953606
2022-05-25 00:00:00	167.561539	494.767578	214.933731	170.967987	50.100410
2022-05-26 00:00:00	171.622223	498.879974	218.759460	175.412811	51.030190
2022-05-27 00:00:00	175.406906	503.727386	221.255432	179.493774	51.382530
2022-05-31 00:00:00	174.214325	493.466309	218.550644	179.218430	51.940395
2022-06-01 00:00:00	171.908020	489.264526	220.082047	177.232010	50.648491
2022-06-02 00:00:00	174.174911	488.976501	224.129272	181.008148	51.069340

2022-06-03 00:00:00	169.848145	482.370819	222.747040	182.404526	50.834446
2022-06-06 00:00:00	165.343948	486.910339	223.910507	183.997589	51.137852
2022-06-07 00:00:00	167.403854	493.784180	227.470474	182.424179	51.441254
2022-06-08 00:00:00	162.988373	490.238007	220.440018	176.455170	50.736580
2022-06-09 00:00:00	159.252960	486.165344	215.577377	173.613235	49.258720
2022-06-10 00:00:00	155.507675	481.397369	209.939087	170.171463	47.682987
2022-06-13 00:00:00	151.318893	466.566956	206.906158	169.846954	46.058323
2022-06-14 00:00:00	151.860977	458.669983	207.323807	171.263000	44.746845
2022-06-15 00:00:00	153.674469	461.232758	208.666245	172.954391	45.373219
2022-06-16 00:00:00	149.189987	454.663391	207.025482	169.325760	44.443439
2022-06-17 00:00:00	148.036850	450.645996	205.295212	168.224411	44.443439
2022-06-21 00:00:00	151.249908	478.817596	208.298325	171.597336	45.343861
2022-06-22 00:00:00	150.402283	488.148315	207.821014	173.219879	45.510239
2022-06-23 00:00:00	148.963318	498.246613	208.576752	175.658646	44.746845
2022-06-24 00:00:00	153.704025	494.089691	214.573029	180.250961	46.508530
2022-06-27 00:00:00	153.378784	504.078339	212.653824	178.785736	46.244278
2022-06-28 00:00:00	151.939819	506.849640	212.166565	176.927170	45.891937
2022-06-29 00:00:00	150.579681	514.096924	211.957733	178.117065	45.585529
2022-06-30 00:00:00	151.437149	512.023376	212.087006	179.503601	45.486691
2022-07-05 00:00:00	146.952682	503.659637	208.994400	181.558838	45.921593
2022-07-06 00:00:00	148.638062	513.678162	208.546921	182.089844	45.961128
2022-07-07 00:00:00	152.462173	512.771057	211.440643	183.092880	46.218113
2022-07-08 00:00:00	153.290085	517.007751	208.527039	182.316025	45.990780
2022-07-11 00:00:00	151.348450	515.333008	208.696075	181.568665	45.812866
2022-07-12 00:00:00	152.235504	512.810913	205.344940	176.386322	45.664604
2022-07-13 00:00:00	152.067932	499.672150	205.553772	174.960449	44.794804
2022-07-14 00:00:00	155.576675	500.858429	204.370422	175.314453	43.737202
2022-07-15 00:00:00	158.227936	528.092957	207.960236	179.552765	46.030315
2022-07-18 00:00:00	157.370468	517.745422	209.044128	177.084518	46.139042
2022-07-19 00:00:00	162.268875	531.781433	215.686752	182.719193	46.910004
2022-07-20 00:00:00	162.948959	517.845093	213.250458	183.741913	46.504753
2022-07-21 00:00:00	164.141510	520.825806	210.714722	183.899246	47.058266
2022-07-22 00:00:00	161.539536	519.779053	212.206329	184.853104	47.157104
2022-07-25 00:00:00	160.849625	527.813843	216.144196	184.784271	47.493164
2022-07-26 00:00:00	158.523605	529.927246	214.761963	178.510406	46.870464
2022-07-27 00:00:00	169.069504	532.937744	218.660034	180.840973	47.651310
2022-07-28 00:00:00	173.218887	539.796265	222.488510	185.108795	45.585529
2022-07-29 00:00:00	177.474945	540.643616	226.028595	191.648178	46.653019
2022-08-02 00:00:00	175.818161	533.785156	221.255432	190.310776	46.386147
2022-08-03 00:00:00	182.018723	538.958923	224.367935	190.202621	47.107685
2022-08-04 00:00:00	183.447327	532.080444	226.078308	191.284332	46.524521
2022-08-05 00:00:00	182.842148	533.386353	227.341202	193.487061	46.840813
2022-08-08 00:00:00	181.354019	534.921509	226.585464	192.828201	46.405914
2022-08-09 00:00:00	176.304291	535.579468	227.211945	193.378891	46.633247
2022-08-10 00:00:00	181.671478	536.038025	234.441269	199.003738	47.315250
2022-08-11 00:00:00	180.619873	531.193237	237.911743	201.029465	47.878647
2022-08-12 00:00:00	183.913620	541.999329	238.607834	202.991135	48.204823
2022-08-15 00:00:00	183.933441	542.936401	236.837784	203.971954	48.511230

2022-08-16	00:00:00	181.909592	544.411743	240.000000	204.437607	48.728680
2022-08-17	00:00:00	175.312195	543.295288	239.542572	203.080292	48.461807
2022-08-18	00:00:00	177.048355	543.514587	240.556870	206.121841	48.442039
2022-08-19	00:00:00	175.054245	546.604919	237.185837	206.498322	48.046677
2022-08-22	00:00:00	170.083878	542.866638	236.181473	204.487137	47.048378
2022-08-23	00:00:00	171.155334	534.124023	236.310745	203.367615	46.860584
2022-08-24	00:00:00	170.827942	534.781982	236.957108	201.158264	46.643131
2022-08-25	00:00:00	175.907440	539.876038	237.732758	203.100113	47.206524
2022-08-26	00:00:00	168.149307	527.594543	229.976379	197.086365	45.951244
2022-08-29	00:00:00	166.611572	528.112915	231.110016	195.441757	45.565762
2022-08-30	00:00:00	165.421066	521.204590	225.240005	193.242325	45.377964
2022-08-31	00:00:00	163.903168	517.705566	224.509995	192.707321	45.081444
2022-09-01	00:00:00	164.845642	522.360962	226.059998	194.787872	45.338428
2022-09-02	00:00:00	161.710632	514.734863	223.940002	194.233063	45.022137
2022-09-06	00:00:00	161.809860	516.060730	227.979996	194.143906	44.794804
2022-09-07	00:00:00	164.508347	520.048218	228.789993	194.470825	45.377964
2022-09-08	00:00:00	167.077850	525.859985	230.339996	194.312317	46.504753
2022-09-09	00:00:00	169.389420	524.340027	231.880005	196.848587	47.028614
2022-09-12	00:00:00	169.230682	531.250000	234.160004	198.314880	47.008846
2022-09-13	00:00:00	161.363403	513.960022	226.289993	190.924026	44.656425
2022-09-14	00:00:00	163.952759	509.769989	217.949997	189.190231	44.577351
2022-09-15	00:00:00	161.383240	522.909973	218.360001	183.285461	45.338428
2022-09-16	00:00:00	163.952759	521.020020	212.000000	175.072296	45.338428
2022-09-19	00:00:00	164.934937	523.549988	216.199997	178.361526	45.615185
2022-09-20	00:00:00	164.746429	522.799988	213.270004	174.051834	44.468628
2022-09-21	00:00:00	162.008270	512.080017	211.889999	172.218994	43.420910
2022-09-22	00:00:00	161.333633	517.460022	209.169998	166.304321	42.531342
2022-09-23	00:00:00	160.014160	513.609985	203.970001	162.807037	41.631886
2022-09-26	00:00:00	159.190735	508.359985	200.860001	160.250946	40.584171
2022-09-27	00:00:00	159.438766	508.369995	197.250000	163.242950	40.485329
2022-09-28	00:00:00	161.512222	513.940002	201.830002	165.571167	40.939999
2022-09-29	00:00:00	157.196625	508.829987	199.199997	163.787857	40.730000
2022-09-30	00:00:00	153.555664	505.040009	194.820007	160.042877	40.320000
2022-10-03	00:00:00	158.575638	515.510010	200.259995	161.578522	41.570000
2022-10-04	00:00:00	163.843628	523.169983	205.380005	167.324768	42.630001
2022-10-05	00:00:00	166.472672	527.070007	200.619995	166.373657	42.200001
2022-10-06	00:00:00	165.222626	519.130005	198.210007	164.065262	41.080002
2022-10-07	00:00:00	158.020065	504.850006	195.619995	157.665131	40.200001
2022-10-11	00:00:00	152.236176	499.809998	192.639999	157.932632	38.790001
2022-10-12	00:00:00	150.351212	499.959991	192.119995	158.001968	39.110001
2022-10-13	00:00:00	153.119141	509.910004	196.740005	162.143250	41.369999
2022-10-14	00:00:00	147.166595	513.130005	193.789993	160.181580	42.759998
2022-10-17	00:00:00	149.795639	521.880005	198.600006	163.193420	42.639999
2022-10-18	00:00:00	150.311523	522.210022	201.639999	165.442383	42.799999
2022-10-19	00:00:00	151.442505	520.320007	200.059998	164.253494	41.259998
2022-10-20	00:00:00	152.504044	520.880005	186.449997	159.488068	40.009998
2022-10-21	00:00:00	158.456589	533.729980	190.529999	164.015732	40.509998
2022-10-24	00:00:00	160.371307	541.599976	193.490005	165.997192	41.130001

2022-10-25 00:00:00	160.877289	540.219971	194.610001	165.452286	42.009998
2022-10-26 00:00:00	156.621216	543.169983	195.779999	167.423843	42.389999
2022-10-27 00:00:00	155.519989	541.799988	196.039993	164.947021	42.080002
2022-10-28 00:00:00	161.360001	551.239990	198.649994	165.620712	42.860001
2022-10-31 00:00:00	160.630005	555.150024	197.139999	166.215149	42.450001
2022-11-01 00:00:00	162.899994	547.309998	196.820007	165.848572	42.880001
2022-11-02 00:00:00	158.490005	543.429993	192.529999	163.054718	41.750000
2022-11-03 00:00:00	156.520004	543.609985	193.190002	162.489990	41.500000
2022-11-04 00:00:00	162.649994	538.169983	196.699997	164.154434	42.830002
2022-11-07 00:00:00	165.690002	545.020020	196.300003	167.562546	43.529999
2022-11-08 00:00:00	168.110001	553.049988	204.009995	167.225693	44.169998
2022-11-09 00:00:00	164.990005	540.659973	203.410004	162.489990	43.240002
2022-11-10 00:00:00	174.690002	544.169983	212.990005	172.320007	44.869999
2022-11-11 00:00:00	179.490005	522.080017	217.500000	178.190002	44.919998
2022-11-14 00:00:00	177.440002	513.750000	216.949997	177.789993	43.849998
2022-11-15 00:00:00	177.570007	503.010010	210.660004	181.470001	43.770000
2022-11-16 00:00:00	173.460007	511.519989	212.270004	177.059998	42.930000
2022-11-17 00:00:00	175.360001	515.309998	209.820007	176.059998	42.770000
2022-11-18 00:00:00	175.179993	530.000000	210.580002	178.970001	43.380001
2022-11-21 00:00:00	172.399994	517.190002	212.270004	180.610001	43.389999
2022-11-22 00:00:00	177.220001	523.090027	213.199997	182.740005	43.910000
2022-11-23 00:00:00	178.979996	529.710022	212.520004	182.839996	44.110001

```
[3]: #-----
#This block of code takes several minutes to run (with 50-something stocks)
#-----

# Remove invalid stocks per assignment requirement (ones outside of the U.S &
↳ ones with average monthly volume of less than 200,000 shares)

df_diff_market = pd.DataFrame()

#Function runs for approx. 9 min for yfinance API
def filter_market(df):
    df_transposed = df.T
    mkt_lst = []

    for i in range(len(df_transposed)):
        # Populate market list
        temp = stocks_full_info[tickers_list[i]]
        mkt_lst.append(temp.info['market'])

    df_transposed['Market'] = mkt_lst

    # Drops the stocks in markets that are not in the U.S
    df_transposed.drop(df_transposed[df_transposed.Market != "us_market"].
↳ index, inplace=True)
```

```

df_transposed = df_transposed.drop('Market', axis=1)

return_df = df_transposed.T

return return_df

df_diff_volume=[]

# Drops the stocks with volumes less than average monthly volume of 200,000
def filter_volume(df):

    start = "2022-01-01"
    end = "2022-10-31"

    df_transposed = df.T
    volume_lst = []

    for i in range(len(df_transposed)):
        ticker_hist = stocks_full_info[tickers_list[i]].history(start=start,
↪end=end, interval="1mo")
        volume_hist = ticker_hist.loc[(ticker_hist.index >= pd.
↪to_datetime(start)) & (ticker_hist.index <= pd.to_datetime(end))]
        volume_lst.append(volume_hist['Volume'].mean())

    # Drops the stocks with volumes less than average monthly volume of 200,000
    df_transposed["Volume"] = volume_lst

    df_transposed.drop(df_transposed[df_transposed.Volume < 200000].index,
↪inplace=True)
    df_transposed = df_transposed.drop('Volume', axis=1)
    return_df = df_transposed.T

    return return_df

# Drops stocks with more than specified number of NaN values
max_number_of_nans = 20
all_prices = all_prices.loc[:, (all_prices.isnull().sum(axis=0) <=
↪max_number_of_nans)]

#all_prices = filter_market(all_prices)
#display(all_prices)

```

```

[4]: # Update previously defined variables
all_prices = filter_market(all_prices)
all_prices = filter_volume(all_prices)

tickers_list = []

```

```

for col in all_prices.columns:
    tickers_list.append(col)

stocks_full_info.clear()
for i in range (len(tickers_list)):
    stocks_full_info[tickers_list[i]] = yf.Ticker(tickers_list[i])

tickers_num = len(tickers_list)

```

0.2 Beta and Standard Deviation

Since we chose the safe investment strategy, we want to make sure the stocks we choose have the lowest volatility and risk. To do that, we can use two measures of a stock's volatility: standard deviation and beta. First, we have to define a function that calculates the beta value of a stock. In other words, how volatile it is compared to the market. We decided to use the S&P 500 as the market to compare all our stocks to, as it's one of the more reliable value weighted indexes in the United States.

Beta essentially calculates how a stock moves in relation to the market. If it is negative, it moves opposite the market, on average, whereas if it's positive, it moves with the market. A value of 1 means that the stock perfectly follows the movement of the market; larger than 1 and it means the stock is more sensitive to market movements, moving up and down more than the market, in the same direction. If a stock has a beta closer to 0, then that means it's less sensitive to changes in the market, which is better for us since we want a portfolio that is fairly stable. The lower our beta, the better, as it is very unlikely that we'll have any stocks that move opposite the market. Even if we happen to do, there will still be far more stocks with positive betas, so a stock with a negative beta will help balance out the market risk from all our other stocks.

Another key statistic we need in order to determine which stocks are the safest and least volatile is the standard deviation of percentage returns. Similarly to beta, we wish to select stocks with a low standard deviation. This way, we are able to find the stocks that have lower volatility as they have a smaller percentage return. As such, we are able to construct a portfolio with lower risk.

```

[5]: #Function to get the beta of a stock against a given market
def stock_beta(stock_ticker, market_index):

    #Get basic info on both the stock and the market
    index_ticker = yf.Ticker(market_index)
    stock_ticker_object = yf.Ticker(stock_ticker)
    stock_hist = stock_ticker_object.history(start=start_date, end=end_date)
    MarketIndex_hist = index_ticker.history(start=start_date, end=end_date)

    #Get the closing prices of both the stock and market
    prices = pd.DataFrame(stock_hist['Close'])
    prices.columns = [stock_ticker]
    prices[market_index] = MarketIndex_hist['Close']

    #Daily returns of both stock and market

```

```

    daily_returns = prices.pct_change()
    daily_returns.drop(index=daily_returns.index[0], inplace=True) #Drop the
    ↪ first entry since it's NaN

    #Calculate market variance
    MarketVar = daily_returns[market_index].var()

    #Now calculate the beta by taking the covariance
    beta = daily_returns.cov() / MarketVar

    return beta.iat[0,1] #To get the value we need, don't care about the others

```

```

[6]: #-----
#This block of code takes a few seconds to run (with 50-something stocks)
#-----
daily_returns = all_prices.pct_change()

#New DataFrame to hold our std and beta stats
stats_df = pd.DataFrame(daily_returns.std())
stats_df.columns = ['std']

# Calculate BETA against S&P500
MarketIndex = '^GSPC' #This is the symbol yfinance uses for the S&P 500
beta_list = []

for i in range(tickers_num):
    beta_list.append(stock_beta(tickers_list[i], MarketIndex))

stats_df['beta'] = beta_list
#stats_df

```

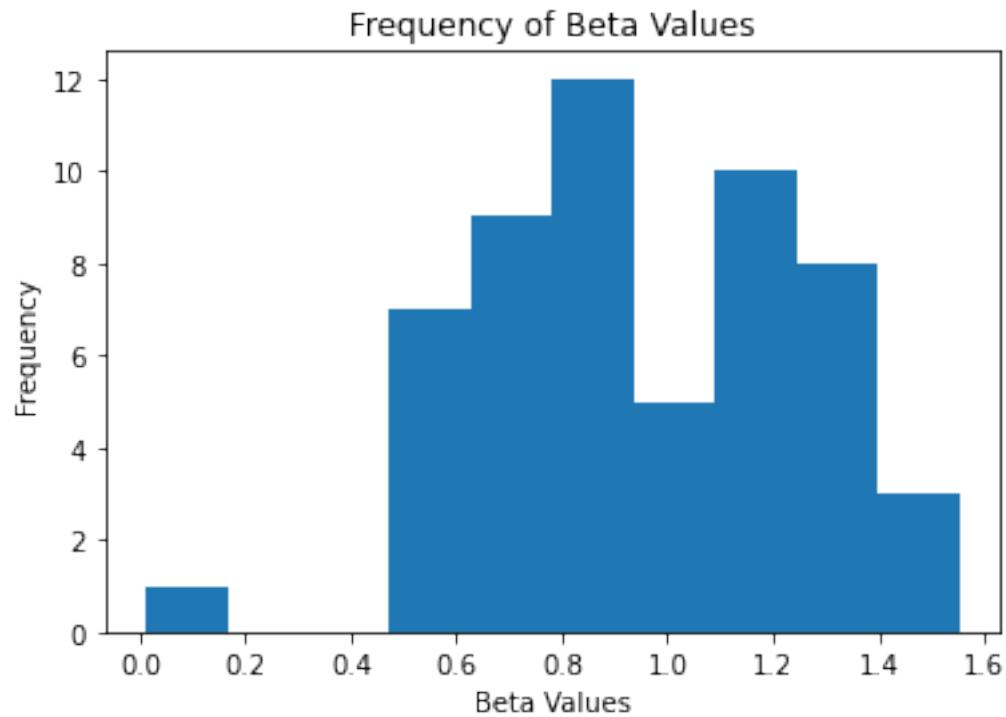
```

[7]: # Plot the histogram
plt.hist(stats_df['beta'])

# Title and Axes Labels
plt.title('Frequency of Beta Values')
plt.xlabel('Beta Values')
plt.ylabel('Frequency')

plt.show()

```

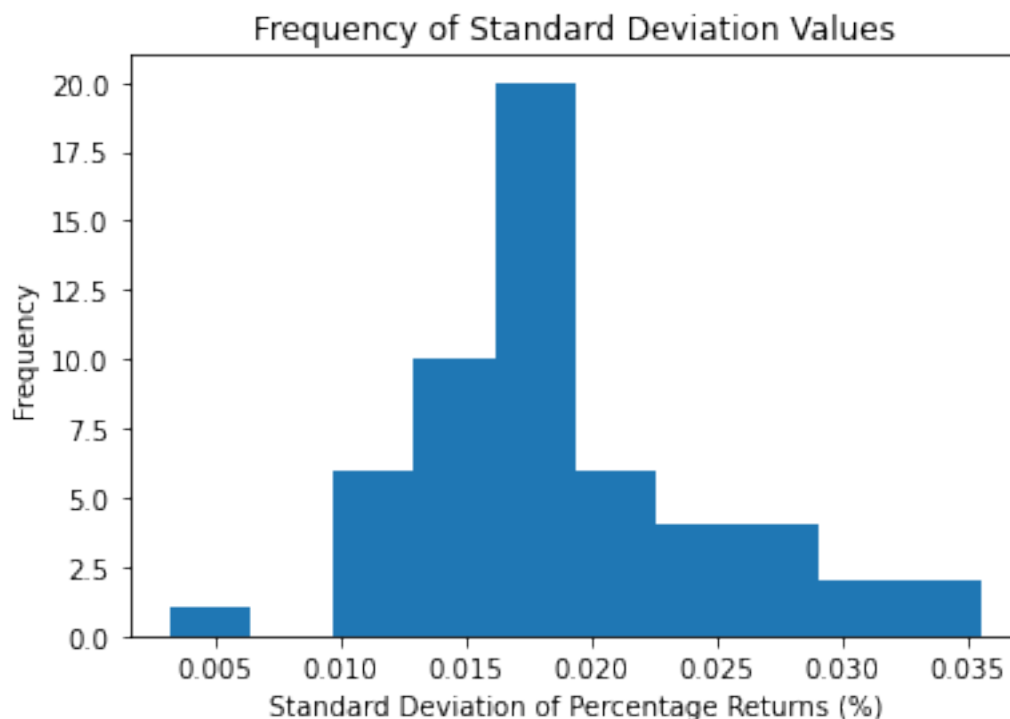


From the graph above, we can see that most of our beta values lie around the 1.0 mark, which makes sense because that's the average market movement; you'd expect most stocks to move roughly similarly to the market, as otherwise the market would not be moving in that direction.

```
[8]: # Plot the histogram
plt.hist(stats_df['std'])

# Title and Axes Labels
plt.title('Frequency of Standard Deviation Values')
plt.xlabel('Standard Deviation of Percentage Returns (%)')
plt.ylabel('Frequency')

plt.show()
```

In the graph above, you can see a histogram of the standard deviation of percentage returns on all of our stocks. We want to select the stocks with the smallest values, and avoid those on the upper end of the spectrum, since we want to avoid having too much risk in our portfolio.

0.3 Point System

Since we have two different measures for risk and stock volatility, we needed a way to combine them together a low beta didn't necessarily mean a low standard deviation, and the same for the other way around. We didn't necessarily want to prioritize one over the other by filtering our stocks by one statistic before filtering by the other, so we decided on a points system. We would sort all our stocks based on standard deviation, and again by beta, going from smallest to largest. Then, we gave points to each stock depending on where they ranked in our sorted list, giving the stock with the lowest standard deviation and lowest beta the highest number of points, and those with the highest values the lowest number of points. Then, we added those points together and resorted the series to get the final list of stocks from safest to riskiest, based purely on beta and standard deviation.

0.4 Diversification

As we learned from Assignment 3, diversification reduces the overall risk of a portfolio. So, when we choose the stocks with the highest number of points based on standard deviation and beta, we also need to consider the industries that the stocks are from. Even if some stocks have low standard deviation and beta values, we must consider the industry that they are a part of. Thus, we have implemented a process that selects stocks based on standard deviation and beta values, while also taking into account the importance of diversification across industries. After a select

number of stocks have been chosen from an industry, we no longer add the next stock from that same industry. Instead, we introduce stocks from other industries. This way, if any external event were to affect one particular industry more than the others, our portfolio would overall experience less fluctuations. By accounting for non-systematic risk, we are further ensuring that our final portfolio is safe.

```
[9]: #Get a pandas series of the beta and sd, sorted in ascending order, then put  
    ↳ that in a DataFrame  
beta_df = pd.DataFrame(stats_df['beta'].sort_values(ascending=True))  
std_df = pd.DataFrame(stats_df['std'].sort_values(ascending=True))  
  
#Now we give each stock points in each category using a list  
std_points = []  
beta_points = []  
for i in range(tickers_num):  
    std_points.append(tickers_num - i) #So the stocks with the lowest std get  
    ↳ the highest number of points  
    beta_points.append(tickers_num - i) #So the stocks with the lowest beta get  
    ↳ the highest number of points  
  
#Add our lists to our DataFrames as new columns  
beta_df['points'] = beta_points  
std_df['points'] = std_points  
  
#Store all the necessary points values we need, adding the points from beta and  
    ↳ std together  
total_points = pd.DataFrame(std_df['points'])  
total_points.columns = ['std']  
total_points['beta'] = pd.DataFrame(beta_df['points'])  
total_points['total'] = total_points['std'] + total_points['beta']  
  
#Now we isolate the total points and sort that series from highest to lowest  
    ↳ before turning it back into a DataFrame  
#Since we want to prioritize the stocks with the highest number of total points  
final_points = pd.DataFrame(total_points['total'].sort_values(ascending=False))  
final_points.reset_index(inplace=True)  
final_points.columns = ['tickers', 'points']  
#final_points
```

```
[10]: #-----  
    #This block of code takes several minutes to run (with 50-something stocks)  
    #-----  
selected_tickers = []  
sector_count = {}  
sector_max = 5  
  
for i in range(tickers_num):
```

```

    #We only want choose the maximum number of stocks we can (initiated in the
    ↪very beginning of the code), not the
    # total number of stocks we have, so if we have enough stocks, do nothing
    if len(selected_tickers) < max_stocks:
        temp = stocks_full_info[tickers_list[i]]
        sector = temp.info['sector']
        if sector in sector_count: #If there is a key in sector_count that
    ↪matches the sector of our stock
            #If our current number of stocks is less than our maximum, then we
    ↪add it, otherwise we just skip over it
            # and do nothing
            if sector_count[sector] < sector_max:
                selected_tickers.append(final_points.tickers[i])
                sector_count[sector] += 1
            else: #So if there is no sector in our dictionary that matches that of
    ↪the stock
                selected_tickers.append(final_points.tickers[i])
                sector_count[sector] = 1

selected_tickers

```

```

[10]: ['MON',
       'BMY',
       'CL',
       'KO',
       'PG',
       'ABBV',
       'MRK',
       'PEP',
       'MO',
       'SO',
       'PM',
       'LMT',
       'CVS',
       'PFE',
       'ABT',
       'COST',
       'UNP',
       'UNH',
       'NEE',
       'CMCSA',
       'CSCO',
       'KMI',
       'ACN',
       'BK',
       'ORCL']

```

Here, we can see the number of stocks within each industry. As explained above, we can see that the stocks are spread across several industries, and not just bunched all in one.

```
[11]: sector_count
```

```
[11]: {'Technology': 3,
      'Healthcare': 5,
      'Financial Services': 5,
      'Consumer Cyclical': 2,
      'Industrials': 3,
      'Consumer Defensive': 3,
      'Communication Services': 2,
      'Energy': 2}
```

```
[12]: selected_ticker_prices = pd.DataFrame()
      selected_portfolio = pd.DataFrame()
      selected_ticker_returns = pd.DataFrame()
      selected_ticker_points = []
      selected_ticker_weights = []
      shares_per_stock = []
      investment = 500000 #500,000

      #Get the number of points associated with each of our chosen tickers
      for i in range(len(selected_tickers)):
          selected_ticker_points.append(total_points.total[selected_tickers[i]])

      #Calculate the weighting that should be given to each of our selected tickers,
      ↪based on how their points compare to
      # that of the other chosen stocks
      for i in range(len(selected_tickers)):
          selected_ticker_weights.append(selected_ticker_points[i] /
          ↪sum(selected_ticker_points))
          selected_ticker_prices[selected_tickers[i]] =
          ↪all_prices[selected_tickers[i]]
          selected_ticker_returns[selected_tickers[i]] =
          ↪daily_returns[selected_tickers[i]]
          shares_per_stock.append((investment * selected_ticker_weights[i]) /
          ↪selected_ticker_prices.iloc[0, i])
          selected_portfolio[selected_tickers[i]] = shares_per_stock[i] *
          ↪selected_ticker_prices[selected_tickers[i]]

      selected_portfolio['total'] = selected_portfolio.sum('columns')
      selected_ticker_prices
```

```
[12]:
```

	MON	BMJ	CL	KO	PG	ABBV \
Date						
2021-03-16	9.785	58.655910	72.816872	48.974052	123.469925	102.991287

2021-03-17	9.680	58.921234	72.759285	48.993179	122.971985	97.601997
2021-03-18	9.770	59.063377	73.018456	48.352551	123.240097	96.421921
2021-03-19	9.750	59.413982	71.972176	48.582031	122.579384	96.096695
2021-03-22	9.700	60.058350	72.730476	48.763699	124.657318	98.401108
...
2022-11-17	9.995	77.160004	75.290001	60.709999	140.869995	152.160004
2022-11-18	9.995	77.449997	76.459999	61.139999	142.570007	154.979996
2022-11-21	9.995	78.959999	76.919998	62.080002	144.380005	157.110001
2022-11-22	10.010	78.860001	76.370003	62.349998	145.619995	159.789993
2022-11-23	10.010	79.139999	76.930000	62.630001	146.449997	159.389999

	MRK	PEP	MO	SO	...	COST \
Date					...	
2021-03-16	69.581032	128.622894	43.404179	57.139622	...	323.250336
2021-03-17	70.024918	128.248566	43.702671	56.626534	...	325.166626
2021-03-18	69.997749	127.202385	44.396221	56.346664	...	319.032532
2021-03-19	70.215141	129.093185	44.378662	55.693642	...	324.890015
2021-03-22	70.215141	132.260529	45.335590	55.684311	...	330.401825
...
2022-11-17	102.309998	180.029999	43.669998	64.239998	...	521.320007
2022-11-18	104.230003	181.330002	44.200001	65.570000	...	523.669983
2022-11-21	105.610001	184.820007	44.799999	65.730003	...	523.369995
2022-11-22	106.900002	184.839996	45.160000	65.949997	...	531.950012
2022-11-23	106.820000	185.080002	45.020000	66.360001	...	534.489990

	UNP	UNH	NEE	CMCSA	CSCD \
Date					
2021-03-16	205.282028	347.556396	72.760925	55.796642	47.165886
2021-03-17	205.863831	345.184448	70.425011	55.277512	46.928493
2021-03-18	208.831070	354.858337	68.658592	53.710514	46.339745
2021-03-19	204.409302	358.318268	68.378662	53.316357	46.510677
2021-03-22	200.016647	359.572845	69.199135	54.191189	47.764130
...
2022-11-17	209.820007	515.309998	81.933891	34.259998	46.590000
2022-11-18	210.580002	530.000000	82.779594	34.500000	47.790001
2022-11-21	212.270004	517.190002	83.177574	34.349998	47.619999
2022-11-22	213.199997	523.090027	83.684998	35.099998	48.380001
2022-11-23	212.520004	529.710022	84.919998	35.529999	48.570000

	KMI	ACN	BK	ORCL
Date				
2021-03-16	14.289574	257.676697	43.974262	64.960365
2021-03-17	14.558847	258.410065	44.231030	64.348175
2021-03-18	14.145960	260.971985	44.411716	64.853462
2021-03-19	14.289574	257.930908	44.078869	64.387032
2021-03-22	14.163912	259.319489	42.994728	64.445343
...

2022-11-17	18.299999	287.140015	43.880001	79.199997
2022-11-18	18.420000	286.500000	44.560001	79.730003
2022-11-21	18.280001	287.019989	44.650002	79.820000
2022-11-22	18.719999	292.890015	45.240002	82.120003
2022-11-23	18.650000	294.529999	45.490002	82.559998

[418 rows x 25 columns]

[13]: *#created to assist with the Monte Carlo calculations later on*
selected_portfolio

[13]:

	MON	BMJ	CL	KO \
Date				
2021-03-16	26777.020448	25559.883155	25316.455696	24099.318403
2021-03-17	26489.685248	25675.500510	25296.434369	24108.730429
2021-03-18	26735.974053	25737.440812	25386.540950	23793.487622
2021-03-19	26681.242048	25890.220354	25022.777741	23906.411287
2021-03-22	26544.414644	26171.009632	25286.418401	23995.806764
...
2022-11-17	27351.693458	33623.221621	26176.295816	29874.382977
2022-11-18	27351.693458	33749.589014	26583.072517	30085.978990
2022-11-21	27351.693458	34407.587123	26743.001750	30548.538591
2022-11-22	27392.742462	34364.011815	26551.783226	30681.399458
2022-11-23	27392.742462	34486.024005	26746.479222	30819.184088

	PG	ABBV	MRK	PEP \
Date				
2021-03-16	23855.890944	23855.890944	23855.890944	22638.753651
2021-03-17	23759.682869	22607.568737	24008.077410	22572.868544
2021-03-18	23811.485403	22334.227375	23998.762754	22388.731592
2021-03-19	23683.827579	22258.895256	24073.295697	22721.529002
2021-03-22	24085.309748	22792.666830	24073.295697	23279.009080
...
2022-11-17	27217.796098	35244.849842	35077.032938	31686.853377
2022-11-18	27546.259129	35898.045126	35735.307870	31915.665277
2022-11-21	27895.972668	36391.418552	36208.440606	32529.936749
2022-11-22	28135.553860	37012.185752	36650.718054	32533.454990
2022-11-23	28295.920307	36919.535092	36623.289387	32575.698055

	MO	SO	...	UNP	UNH \
Date			...		
2021-03-16	22395.326193	21421.616358	...	18257.059396	18257.059396
2021-03-17	22549.339829	21229.259832	...	18308.802846	18132.461488
2021-03-18	22907.192032	21124.337051	...	18572.698649	18640.628712
2021-03-19	22898.132059	20879.519134	...	18179.442185	18822.378079
2021-03-22	23391.879920	20876.021040	...	17788.774998	18888.280760
...

2022-11-17	22532.481548	24083.543911	...	18660.651251	27069.118359
2022-11-18	22805.947867	24582.160950	...	18728.242481	27840.780886
2022-11-21	23115.530077	24642.146245	...	18878.545336	27167.874593
2022-11-22	23301.280191	24724.621735	...	18961.255604	27477.801550
2022-11-23	23229.044473	24878.331908	...	18900.779454	27825.548405

	NEE	CMCSA	CSCO	KMI \
Date				
2021-03-16	16796.494645	16309.639727	16066.212269	15579.357352
2021-03-17	16257.260473	16157.895206	15985.348801	15872.935886
2021-03-18	15849.491632	15699.853931	15784.802047	15422.780885
2021-03-19	15784.871170	15584.639734	15843.027226	15579.357352
2021-03-22	15974.273181	15840.357581	16269.993249	15442.353203
...
2022-11-17	18914.027836	10014.370160	15870.047119	19951.765829
2022-11-18	19109.254161	10084.523860	16278.805835	20082.598001
2022-11-21	19201.125786	10040.677658	16220.897712	19929.962200
2022-11-22	19318.261933	10259.906437	16479.778795	20409.675311
2022-11-23	19603.355630	10385.597693	16544.498416	20333.357410

	ACN	BK	ORCL	total
Date				
2021-03-16	13145.082765	12901.655307	12414.800389	500000.000000
2021-03-17	13182.494693	12976.988528	12297.802591	498150.866824
2021-03-18	13313.188128	13030.000464	12394.369772	498221.007775
2021-03-19	13158.051071	12932.345956	12305.228593	497479.512039
2021-03-22	13228.887913	12614.268747	12316.372698	501328.501830
...
2022-11-17	14648.120319	12873.999923	15136.185711	603675.609776
2022-11-18	14615.470702	13073.505931	15237.477071	610503.407351
2022-11-21	14641.997348	13099.911171	15254.676583	613999.258193
2022-11-22	14941.450010	13273.011940	15694.238132	619520.443387
2022-11-23	15025.111930	13346.359704	15778.327064	621779.424016

[418 rows x 26 columns]

0.5 Correlation

We will calculate the correlation between two stocks, given by the following formula:

$$COR(X, Y) = \frac{COV(X, Y)}{\sigma_X \times \sigma_Y}$$

It describes the relationship between two two and how they move together. This calculation is expressed numerically as the correlation coefficient, which has a value between -1 and 1, where 1 represents a perfect positive correlation and -1 represents a perfect negative correlation. When two stocks are postively correlated, it implies that as one stock moves up or down, the other moves in the same direction. Conversely, when two stocks are negatively correlated, it implies that the

two move in opposite directions. Zero correlation implies that there is no relationship between the stocks at all.

Since we are creating a safe portfolio, we wish to reduce risk. Thus, we want to find a negative correlation between our stocks to help counteract any fluctuations within the portfolio. We take the list of stocks that have low standard deviations and betas, so that the overall portfolio is not affected by the volatility of these stocks. We then wish to find the most negatively correlated stocks in that list to discover which best complement the portfolio. Furthermore, the inclusion of negatively correlated stocks is used to account for non-systematic risks. If two stocks are very positively correlated, it is expected that the external event that affected one stock, is likely to affect the other. Therefore, to reduce risk, we include a small number of stocks that have a negative correlation with each other.

Before we find the correlation, we want to extract the top 30 stocks that was filtered from the point system, earlier.

```
[14]: top_number_of_stocks = 30
top_stocks_returns = pd.DataFrame()
top_stocks_tickers = []

for i in range(top_number_of_stocks):
    top_stocks_tickers.append(final_points['tickers'])
    top_stocks_returns[top_stocks_tickers[i]] =
    ↪daily_returns[top_stocks_tickers[i]]

top_stocks_returns
```

```
[14]:
```

	MON	BMJ	CL	KO	PG	ABBV	\
Date							
2021-03-16	NaN	NaN	NaN	NaN	NaN	NaN	
2021-03-17	-0.010731	0.004523	-0.000791	0.000391	-0.004033	-0.052328	
2021-03-18	0.009298	0.002412	0.003562	-0.013076	0.002180	-0.012091	
2021-03-19	-0.002047	0.005936	-0.014329	0.004746	-0.005361	-0.003373	
2021-03-22	-0.005128	0.010845	0.010536	0.003739	0.016952	0.023980	
...	
2022-11-17	0.000000	0.013263	-0.009472	0.003139	-0.006138	0.001910	
2022-11-18	0.000000	0.003758	0.015540	0.007083	0.012068	0.018533	
2022-11-21	0.000000	0.019496	0.006016	0.015375	0.012696	0.013744	
2022-11-22	0.001501	-0.001266	-0.007150	0.004349	0.008588	0.017058	
2022-11-23	0.000000	0.003551	0.007333	0.004491	0.005700	-0.002503	

	MRK	PEP	MO	SO	...	COP	SLB	\
Date					...			
2021-03-16	NaN	NaN	NaN	NaN	...	NaN	NaN	
2021-03-17	0.006379	-0.002910	0.006877	-0.008980	...	0.004419	0.008909	
2021-03-18	-0.000388	-0.008157	0.015870	-0.004942	...	-0.060707	-0.037443	
2021-03-19	0.003106	0.014865	-0.000396	-0.011589	...	-0.014612	-0.007339	
2021-03-22	0.000000	0.024535	0.021563	-0.000168	...	-0.006844	0.022181	

...
2022-11-17	0.023817	0.009533	0.002065	-0.013824	...	0.015088	-0.003019
2022-11-18	0.018767	0.007221	0.012137	0.020704	...	-0.019819	0.011546
2022-11-21	0.013240	0.019247	0.013575	0.002440	...	-0.024108	-0.021894
2022-11-22	0.012215	0.000108	0.008036	0.003347	...	0.035780	0.026210
2022-11-23	-0.000748	0.001298	-0.003100	0.006217	...	-0.024927	-0.041387

	SPG	AXP	GM	QCOM	COF	PYPL	\
Date							
2021-03-16	NaN	NaN	NaN	NaN	NaN	NaN	
2021-03-17	0.008960	0.009630	0.051296	0.002020	0.024593	0.008664	
2021-03-18	-0.012010	-0.014515	-0.012989	-0.031138	-0.025370	-0.051935	
2021-03-19	-0.001113	-0.013115	0.009280	0.009788	-0.014652	0.012038	
2021-03-22	-0.012340	-0.005401	-0.028753	0.023431	-0.009571	0.012869	
...	
2022-11-17	0.001730	-0.012650	0.004419	0.017643	-0.022799	-0.016085	
2022-11-18	0.018223	0.012347	0.029244	0.008058	-0.004827	-0.008407	
2022-11-21	-0.006107	0.002033	-0.006286	-0.029471	0.023747	-0.050518	
2022-11-22	0.018775	0.011583	0.011387	0.028702	0.002369	-0.008930	
2022-11-23	0.001927	-0.004205	0.003503	0.012131	0.000788	0.010512	

	BA	OXY
Date		
2021-03-16	NaN	NaN
2021-03-17	0.032836	0.030884
2021-03-18	-0.028567	-0.083333
2021-03-19	-0.000937	0.055597
2021-03-22	-0.017942	-0.022776
...
2022-11-17	0.000521	-0.006534
2022-11-18	0.006424	-0.002939
2022-11-21	-0.005463	-0.023298
2022-11-22	-0.002544	0.045696
2022-11-23	0.013623	-0.022674

[418 rows x 55 columns]

Next, we are able to find the correlations between each of these stocks with a correlation matrix:

```
[15]: corr_matrix = top_stocks_returns.corr()
      corr_matrix
```

```
[15]:
```

	MON	BMJ	CL	KO	PG	ABBV	MRK	\
MON	1.000000	-0.002334	0.007484	0.055842	0.010209	0.077379	0.019718	
BMJ	-0.002334	1.000000	0.335093	0.316621	0.336315	0.495082	0.551217	
CL	0.007484	0.335093	1.000000	0.708749	0.751744	0.417119	0.300376	
KO	0.055842	0.316621	0.708749	1.000000	0.706230	0.391741	0.302903	

PG	0.010209	0.336315	0.751744	0.706230	1.000000	0.386902	0.299662
ABBV	0.077379	0.495082	0.417119	0.391741	0.386902	1.000000	0.411676
MRK	0.019718	0.551217	0.300376	0.302903	0.299662	0.411676	1.000000
PEP	0.058519	0.343063	0.709080	0.810738	0.734509	0.406384	0.300352
MO	0.000686	0.287716	0.352280	0.400561	0.364540	0.240757	0.193901
SO	-0.016197	0.283506	0.607770	0.540915	0.548628	0.342864	0.254711
PM	-0.029213	0.347353	0.489544	0.512544	0.477449	0.319244	0.280017
LMT	0.042631	0.230089	0.265477	0.332531	0.253561	0.173762	0.162694
CVS	0.020722	0.362649	0.441148	0.468585	0.442774	0.454394	0.295337
T	-0.011697	0.262641	0.327642	0.412774	0.319534	0.250886	0.236006
PFE	0.029965	0.455385	0.293690	0.260234	0.315788	0.404330	0.265762
ABT	0.015008	0.344995	0.452106	0.437061	0.474585	0.390840	0.302390
COST	0.064609	0.172314	0.448020	0.557158	0.523432	0.263519	0.146642
LLY	0.021206	0.470410	0.328735	0.346724	0.331077	0.459270	0.423507
UNP	0.041298	0.199192	0.365854	0.476301	0.394796	0.251600	0.201274
UNH	0.055635	0.414552	0.452096	0.490864	0.510442	0.449995	0.333439
NEE	-0.009067	0.191562	0.422197	0.430673	0.454166	0.182594	0.139245
CMCSA	0.041545	0.186191	0.339484	0.388458	0.346770	0.349713	0.139682
CSCO	0.055898	0.298389	0.411093	0.527816	0.479131	0.311090	0.229414
KMI	0.017167	0.208950	0.205741	0.321770	0.196329	0.235386	0.181169
UPS	0.058017	0.135900	0.312392	0.373394	0.321854	0.250539	0.104623
ACN	0.057369	0.274306	0.421256	0.504188	0.485321	0.308326	0.197746
BK	0.020719	0.212592	0.254073	0.386199	0.270780	0.296922	0.210429
JPM	0.033113	0.219635	0.295421	0.415860	0.315636	0.286325	0.205380
ORCL	0.036746	0.145125	0.273607	0.347982	0.311223	0.216891	0.157419
USB	-0.048533	0.215702	0.310474	0.396029	0.243308	0.312330	0.189048
CAT	0.021928	0.187780	0.146539	0.279730	0.085769	0.214632	0.202937
TXN	0.040100	0.122597	0.219876	0.327757	0.278987	0.222730	0.081961
TGT	0.060353	0.135728	0.286613	0.446080	0.364095	0.230091	0.120290
MSFT	0.034222	0.186507	0.289138	0.425457	0.386961	0.257199	0.158449
SBUX	0.053030	0.099441	0.313926	0.370818	0.343409	0.180307	0.061783
GOOG	0.020978	0.099413	0.236251	0.354362	0.297473	0.208449	0.121614
BIIB	0.005940	0.257602	0.152257	0.195158	0.172633	0.205387	0.182110
AAPL	0.031760	0.186832	0.295234	0.449360	0.386485	0.230852	0.177446
BAC	0.025076	0.190562	0.236415	0.376910	0.274774	0.260609	0.175427
NKE	0.026684	0.102464	0.264667	0.348778	0.335253	0.183948	0.089373
AMZN	0.027978	0.090722	0.196150	0.275781	0.162340	0.176772	0.066787
MS	0.013898	0.207825	0.212497	0.379254	0.279497	0.209288	0.130851
C	-0.009649	0.213361	0.212011	0.371517	0.243040	0.246652	0.137331
BLK	0.046747	0.205890	0.373275	0.496119	0.419623	0.289745	0.158484
AIG	0.016515	0.242387	0.264555	0.426477	0.244585	0.252966	0.209463
COP	-0.016257	0.139439	0.028942	0.211517	0.039945	0.195910	0.133115
SLB	0.000410	0.097322	0.031149	0.164263	0.016245	0.158295	0.142468
SPG	0.048758	0.172781	0.195132	0.367200	0.241107	0.219377	0.104101
AXP	-0.019170	0.178362	0.219264	0.432110	0.281461	0.247726	0.123975
GM	0.009706	0.079622	0.158785	0.297832	0.205649	0.150121	0.092482
QCOM	0.032551	0.059123	0.171487	0.274820	0.225729	0.136222	0.035030

COF	-0.032546	0.181512	0.205091	0.380055	0.249498	0.203314	0.124997
PYPL	0.044898	0.106914	0.090612	0.175442	0.154627	0.114334	0.074389
BA	0.001075	0.068364	0.068070	0.238464	0.119234	0.097370	0.019600
OXY	-0.016900	0.052975	-0.037096	0.138702	-0.038462	0.122099	0.105770

	PEP	MO	SO	...	COP	SLB	SPG \
MON	0.058519	0.000686	-0.016197	...	-0.016257	0.000410	0.048758
BMV	0.343063	0.287716	0.283506	...	0.139439	0.097322	0.172781
CL	0.709080	0.352280	0.607770	...	0.028942	0.031149	0.195132
KO	0.810738	0.400561	0.540915	...	0.211517	0.164263	0.367200
PG	0.734509	0.364540	0.548628	...	0.039945	0.016245	0.241107
ABBV	0.406384	0.240757	0.342864	...	0.195910	0.158295	0.219377
MRK	0.300352	0.193901	0.254711	...	0.133115	0.142468	0.104101
PEP	1.000000	0.368448	0.553339	...	0.114690	0.093748	0.307915
MO	0.368448	1.000000	0.326919	...	0.324474	0.302493	0.285980
SO	0.553339	0.326919	1.000000	...	0.185842	0.133292	0.239664
PM	0.471270	0.567087	0.370752	...	0.175020	0.193961	0.305226
LMT	0.278220	0.293132	0.349512	...	0.327661	0.289348	0.121505
CVS	0.440291	0.356026	0.389872	...	0.254110	0.255475	0.338995
T	0.348250	0.269362	0.360730	...	0.244225	0.229496	0.304035
PFE	0.317706	0.165300	0.284696	...	0.096599	0.054385	0.146951
ABT	0.492936	0.249992	0.400861	...	0.050146	0.014928	0.309493
COST	0.576644	0.225243	0.388115	...	0.157915	0.099381	0.392762
LLY	0.408338	0.178094	0.309936	...	0.114773	0.076045	0.224052
UNP	0.387365	0.383030	0.391937	...	0.341939	0.267950	0.428423
UNH	0.511493	0.247314	0.439307	...	0.207723	0.173791	0.276319
NEE	0.451497	0.133142	0.612162	...	0.068999	0.003834	0.269878
CMCSA	0.402620	0.209637	0.323797	...	0.166885	0.176037	0.391169
CSCO	0.530460	0.350350	0.373546	...	0.239956	0.212134	0.488093
KMI	0.250344	0.405710	0.333938	...	0.747988	0.704526	0.485283
UPS	0.359180	0.196630	0.226848	...	0.237439	0.184863	0.448522
ACN	0.512585	0.236315	0.398063	...	0.207259	0.176160	0.527158
BK	0.277127	0.264177	0.283021	...	0.361511	0.402744	0.578733
JPM	0.319303	0.339017	0.274627	...	0.384242	0.381576	0.587733
ORCL	0.347452	0.237637	0.246882	...	0.190940	0.139727	0.410868
USB	0.293155	0.339878	0.279726	...	0.380937	0.386137	0.569268
CAT	0.164790	0.326792	0.218648	...	0.556483	0.579758	0.487432
TXN	0.356895	0.209271	0.259738	...	0.283559	0.261493	0.504486
TGT	0.433016	0.239525	0.227560	...	0.208331	0.136564	0.466990
MSFT	0.454747	0.125648	0.309963	...	0.177981	0.099278	0.453795
SBUX	0.414714	0.205294	0.291338	...	0.168290	0.125321	0.531235
GOOG	0.368608	0.105373	0.253028	...	0.192069	0.122339	0.491664
BIIB	0.235809	0.147944	0.163966	...	0.114974	0.082710	0.248387
AAPL	0.481752	0.181073	0.342660	...	0.221545	0.169251	0.513733
BAC	0.274318	0.326150	0.233052	...	0.429794	0.427780	0.585988
NKE	0.338201	0.248003	0.246083	...	0.230297	0.176043	0.519640
AMZN	0.291197	0.067908	0.206982	...	0.193796	0.140863	0.452923

MS	0.302751	0.299417	0.242249	...	0.444196	0.410555	0.602517
C	0.259259	0.343243	0.219243	...	0.456036	0.448797	0.562885
BLK	0.448584	0.282884	0.389773	...	0.321981	0.315693	0.620788
AIG	0.306231	0.374739	0.246570	...	0.447145	0.438506	0.600628
COP	0.114690	0.324474	0.185842	...	1.000000	0.775813	0.356194
SLB	0.093748	0.302493	0.133292	...	0.775813	1.000000	0.354643
SPG	0.307915	0.285980	0.239664	...	0.356194	0.354643	1.000000
AXP	0.319716	0.285723	0.249125	...	0.387266	0.381490	0.622098
GM	0.236844	0.254819	0.137554	...	0.355258	0.366494	0.601568
QCOM	0.290545	0.121364	0.167501	...	0.240195	0.219852	0.445355
COF	0.286359	0.325618	0.224495	...	0.384083	0.375546	0.630678
PYPL	0.190503	0.047406	0.096939	...	0.146497	0.109142	0.385980
BA	0.170557	0.212705	0.123006	...	0.319846	0.300771	0.595989
OXY	0.025942	0.215203	0.041213	...	0.771000	0.666624	0.343675

	AXP	GM	QCOM	COF	PYPL	BA	OXY
MON	-0.019170	0.009706	0.032551	-0.032546	0.044898	0.001075	-0.016900
BMV	0.178362	0.079622	0.059123	0.181512	0.106914	0.068364	0.052975
CL	0.219264	0.158785	0.171487	0.205091	0.090612	0.068070	-0.037096
KO	0.432110	0.297832	0.274820	0.380055	0.175442	0.238464	0.138702
PG	0.281461	0.205649	0.225729	0.249498	0.154627	0.119234	-0.038462
ABBV	0.247726	0.150121	0.136222	0.203314	0.114334	0.097370	0.122099
MRK	0.123975	0.092482	0.035030	0.124997	0.074389	0.019600	0.105770
PEP	0.319716	0.236844	0.290545	0.286359	0.190503	0.170557	0.025942
MO	0.285723	0.254819	0.121364	0.325618	0.047406	0.212705	0.215203
SO	0.249125	0.137554	0.167501	0.224495	0.096939	0.123006	0.041213
PM	0.355558	0.252180	0.159103	0.349212	0.126971	0.236289	0.083288
LMT	0.232419	0.101910	0.090527	0.183466	0.028925	0.168405	0.261497
CVS	0.361518	0.269545	0.223181	0.336839	0.096840	0.243536	0.180522
T	0.327102	0.300420	0.174546	0.424309	0.177079	0.273697	0.201505
PFE	0.120487	0.057303	0.128099	0.123439	0.090904	0.033689	-0.003327
ABT	0.388047	0.301040	0.403767	0.341648	0.360657	0.248727	0.001365
COST	0.351874	0.376978	0.481337	0.312361	0.329966	0.314820	0.116819
LLY	0.175025	0.120584	0.191460	0.144857	0.172644	0.101634	0.064498
UNP	0.485760	0.408791	0.353968	0.484606	0.246762	0.331227	0.242986
UNH	0.354285	0.233292	0.287248	0.294963	0.155022	0.192664	0.167338
NEE	0.228248	0.216093	0.282392	0.228432	0.314630	0.278881	-0.010937
CMCSA	0.433114	0.327215	0.401395	0.440402	0.353200	0.355594	0.139593
CSCO	0.454388	0.373747	0.475375	0.440182	0.314659	0.332358	0.179522
KMI	0.468630	0.424688	0.306141	0.500049	0.227865	0.379343	0.658731
UPS	0.458924	0.428600	0.409194	0.443746	0.351817	0.314865	0.210046
ACN	0.573177	0.467317	0.596145	0.534156	0.525656	0.387083	0.146591
BK	0.651998	0.581970	0.404887	0.704073	0.395002	0.502316	0.322736
JPM	0.685337	0.611509	0.391167	0.721198	0.396667	0.478414	0.319643
ORCL	0.410032	0.454459	0.383634	0.400329	0.299188	0.311076	0.160562
USB	0.665194	0.551908	0.359430	0.727911	0.322720	0.454464	0.339973
CAT	0.529311	0.531485	0.313422	0.567053	0.247426	0.478291	0.454208

TXN	0.494031	0.503514	0.741678	0.496781	0.483231	0.444283	0.239160
TGT	0.362030	0.387789	0.402339	0.388585	0.400509	0.321486	0.222646
MSFT	0.489262	0.431971	0.637070	0.424809	0.556582	0.392169	0.157258
SBUX	0.534649	0.481188	0.504422	0.493204	0.537669	0.467826	0.139666
GOOG	0.515418	0.466845	0.650171	0.495823	0.536260	0.482054	0.181424
BIIB	0.196718	0.184552	0.158020	0.196696	0.236451	0.215216	0.088700
AAPL	0.531478	0.478069	0.672429	0.489890	0.546251	0.457023	0.196924
BAC	0.714549	0.608907	0.393326	0.757800	0.387177	0.506041	0.387391
NKE	0.503446	0.510951	0.510869	0.491514	0.464917	0.425929	0.211141
AMZN	0.471543	0.415101	0.574654	0.457447	0.607847	0.444669	0.185983
MS	0.675881	0.622929	0.462983	0.710802	0.477285	0.514598	0.391480
C	0.647024	0.590861	0.394720	0.720868	0.421405	0.516882	0.390066
BLK	0.657718	0.582137	0.568396	0.668734	0.562266	0.532372	0.253417
AIG	0.688175	0.587541	0.378745	0.714251	0.305309	0.519632	0.381503
COP	0.387266	0.355258	0.240195	0.384083	0.146497	0.319846	0.771000
SLB	0.381490	0.366494	0.219852	0.375546	0.109142	0.300771	0.666624
SPG	0.622098	0.601568	0.445355	0.630678	0.385980	0.595989	0.343675
AXP	1.000000	0.596535	0.475643	0.788852	0.461283	0.588018	0.362323
GM	0.596535	1.000000	0.491615	0.614185	0.454779	0.582034	0.370453
QCOM	0.475643	0.491615	1.000000	0.444180	0.484959	0.420952	0.218855
COF	0.788852	0.614185	0.444180	1.000000	0.466951	0.586347	0.377750
PYPL	0.461283	0.454779	0.484959	0.466951	1.000000	0.448237	0.155259
BA	0.588018	0.582034	0.420952	0.586347	0.448237	1.000000	0.293424
OXY	0.362323	0.370453	0.218855	0.377750	0.155259	0.293424	1.000000

[55 rows x 55 columns]

As seen above, there are multiple repeating and redundant values. We wish to remove these values and ultimately sort through the entire matrix to find the lowest correlations.

```
[16]: #returns the redundant pairs in the matrix, such as AAPL and AAPL or AAPL and
      ↪ABBV with AABV and AAPL
def get_redundant_pairs(df):
    to_drop = set()
    cols = df.columns

    #iterate through the rows and the columns to drop any redundant pairs
    for i in range(0, df.shape[1]):
        for j in range(0, i+1):
            to_drop.add((cols[i], cols[j]))

    return to_drop

def get_neg_correlations(df):
    #unstack to make it easier to read, outputting a series
    sorted_corr = df.corr().unstack()
    #dropping the redundant pairs
```

```

to_drop = get_redundant_pairs(df)
sorted_corr = sorted_corr.drop(labels=to_drop).sort_values(ascending=True)
return sorted_corr

print("\nNegative Correlations")
neg_corr = pd.DataFrame(get_neg_correlations(top_stocks_returns)).reset_index()
neg_corr.rename(columns = {'level_0': 'Ticker 1', 'level_1': 'Ticker 2'}, inplace_
    ↪= True)
neg_corr

```

Negative Correlations

```

[16]:
   Ticker 1 Ticker 2      0
0      MON      USB -0.048533
1      PG       OXY -0.038462
2      CL       OXY -0.037096
3      MON      COF -0.032546
4      MON      PM  -0.029213
...
1480     KO      PEP  0.810738
1481    MSFT     GOOG  0.814204
1482     JPM       C  0.818661
1483     BAC       C  0.830908
1484     JPM      BAC  0.901561

```

[1485 rows x 3 columns]

```

[17]: temp = neg_corr.copy()

#Function to remove any instances of a ticker from a DataFrame set up like
    ↪neg_corr
def remove_instances(ticker1, df):
    #Loop through all rows of the DataFrame
    new_df = df.copy()
    index_to_drop = []
    for i in range (len(df.index)):
        if ticker1 == new_df.iloc[i, 0]:
            index_to_drop.append(i)
        elif ticker1 == new_df.iloc[i, 1]:
            index_to_drop.append(i)

    new_df.drop(labels=index_to_drop, axis=0, inplace=True)
    return new_df

```

```

[18]: #we only want three pairs of stocks from the correlation portfolio
corr_stocks_number = 3

```

```

corr_tickers = []
#create a temporary dataframe
temp_df = neg_corr.copy()
temp_df.reset_index(drop=True, inplace=True)

#loop through the dataframe to extract the stocks with the smallest correlation
#each time we extract a ticker, we remove all instances of it from the
↳dataframe to ensure that
#there are no repeating tickers and that each pair of tickers offset each other
for i in range (corr_stocks_number):

    corr_tickers.append(temp_df.iloc[0, 0])
    tick1 = corr_tickers[2*i]

    corr_tickers.append(temp_df.iloc[0, 1])

    tick2 = corr_tickers[2*i + 1]
    temp_df = remove_instances(tick1, temp_df)
    temp_df.reset_index(drop=True, inplace=True)
    temp_df = remove_instances(tick2, temp_df)
    temp_df.reset_index(drop=True, inplace=True)

corr_tickers

```

[18]: ['MON', 'USB', 'PG', 'OXY', 'NEE', 'SLB']

```

[19]: #to help with the Monte Carlo calculations later on
corr_prices = pd.DataFrame()

for i in range (len(corr_tickers)):
    corr_prices[corr_tickers[i]] = all_prices[corr_tickers[i]]
corr_prices

```

[19]:

	MON	USB	PG	OXY	NEE	SLB
Date						
2021-03-16	9.785	50.686966	123.469925	27.963648	72.760925	27.394434
2021-03-17	9.680	51.298893	122.971985	28.827278	70.425011	27.638504
2021-03-18	9.770	52.974648	123.240097	26.425003	68.658592	26.603647
2021-03-19	9.750	51.976727	122.579384	27.894163	68.378662	26.408390
2021-03-22	9.700	51.063541	124.657318	27.258850	69.199135	26.994160
...
2022-11-17	9.995	42.770000	140.869995	71.459999	81.933891	52.830002
2022-11-18	9.995	43.380001	142.570007	71.250000	82.779594	53.439999
2022-11-21	9.995	43.389999	144.380005	69.589996	83.177574	52.270000
2022-11-22	10.010	43.910000	145.619995	72.769997	83.684998	53.639999
2022-11-23	10.010	44.110001	146.449997	71.120003	84.919998	51.419998

[418 rows x 6 columns]

```
[21]: corr_prices = pd.DataFrame()

for i in range (len(corr_tickers)):
    corr_prices[corr_tickers[i]] = all_prices[corr_tickers[i]]
corr_prices
```

```
[21]:
```

	MON	USB	PG	OXY	NEE	SLB
Date						
2021-03-16	9.785	50.686966	123.469925	27.963648	72.760925	27.394434
2021-03-17	9.680	51.298893	122.971985	28.827278	70.425011	27.638504
2021-03-18	9.770	52.974648	123.240097	26.425003	68.658592	26.603647
2021-03-19	9.750	51.976727	122.579384	27.894163	68.378662	26.408390
2021-03-22	9.700	51.063541	124.657318	27.258850	69.199135	26.994160
...
2022-11-17	9.995	42.770000	140.869995	71.459999	81.933891	52.830002
2022-11-18	9.995	43.380001	142.570007	71.250000	82.779594	53.439999
2022-11-21	9.995	43.389999	144.380005	69.589996	83.177574	52.270000
2022-11-22	10.010	43.910000	145.619995	72.769997	83.684998	53.639999
2022-11-23	10.010	44.110001	146.449997	71.120003	84.919998	51.419998

[418 rows x 6 columns]

```
[67]: corr_portfolio = pd.DataFrame()
corr_ticker_cost = investment / (corr_stocks_number * 2)
corr_shares_per_stock = []

for i in range (len(corr_tickers)):
    corr_shares_per_stock.append(corr_ticker_cost / corr_prices.iloc[0, i])
    corr_portfolio[corr_tickers[i]] = corr_shares_per_stock[i] * \
    ↪corr_prices[corr_tickers[i]]

corr_portfolio['total'] = corr_portfolio.sum('columns')

corr_portfolio
```

```
[67]:
```

	MON	USB	PG	OXY \
Date				
2021-03-16	83333.333333	83333.333333	83333.333333	83333.333333
2021-03-17	82439.111362	84339.389198	82997.259546	85907.002965
2021-03-18	83205.591979	87094.460639	83178.216017	78748.080367
2021-03-19	83035.259343	85453.800541	82732.282054	83126.264764
2021-03-22	82609.435876	83952.452836	84134.738473	81232.994146
...
2022-11-17	85121.785398	70317.223344	95077.131267	212955.046397
2022-11-18	85121.785398	71320.112021	96224.517434	212329.236638

2022-11-21	85121.785398	71336.550043	97446.135816	207382.327019
2022-11-22	85249.534875	72191.471435	98283.040184	216858.917016
2022-11-23	85249.534875	72520.288320	98843.231820	211941.837093

	NEE	SLB	total
Date			
2021-03-16	83333.333333	83333.333333	500000.000000
2021-03-17	80658.002444	84075.789670	500416.555185
2021-03-18	78634.917423	80927.775499	491789.041923
2021-03-19	78314.312517	80333.806949	492995.726167
2021-03-22	79254.002690	82115.706798	493299.330818
...
2022-11-17	93839.162259	160707.834174	718018.182839
2022-11-18	94807.748903	162563.432518	722366.832912
2022-11-21	95263.556438	159004.320930	715554.675643
2022-11-22	95844.710172	163171.830934	731599.504616
2022-11-23	97259.160540	156418.630562	722232.683209

[418 rows x 7 columns]

```
[101]: # Monte Carlo Simulation
# Input: list with both weighted portfolio historical prices
def monte_carlo(portfolio_value):
    daily_returns = np.diff(portfolio_value)/100
    daily_volatility = portfolio_value.std()

    num_simulations = 2000
    df = pd.DataFrame()

    trading_days = 5
    price = portfolio_value[len(portfolio_value)-1]/2000
    price_list = []

    for i in range(num_simulations):
        for i in range(trading_days):
            if i == trading_days-1:
                price_list.append(price/2)
                price=0
                break
            price = price/2000 * (1 + np.random.normal(0, daily_volatility))
            print(price)
        price = portfolio_value[len(portfolio_value)-1]/2000

    mean_simulated_price = round(np.mean(price_list),2)

    return mean_simulated_price
```

```
[106]: ranking_weight = []
correlation_weight = []
predicted_price = []

count = 70
while count <= 95:
    ranking_weight.append(count/100)
    correlation_weight.append((100-count)/100)

    ranking_weighted_value = [x * count/100 for x in
↪selected_portfolio['total']]
    correlation_weighted_value = [x * ((100-count)/100) for x in
↪corr_portfolio['total']]

    predicted_price.append(monte_carlo(np.add(ranking_weighted_value,
↪correlation_weighted_value)))

    count += 5
# Create a dataframe to store Monte Carlo values
monte_carlo_df = pd.DataFrame()

# Convert python lists to numpy arrays
ranking_weight_array = np.array(ranking_weight)
correlation_weight_array = np.array(correlation_weight)
predicted_price_array = np.array(predicted_price)

# Populating the dataframe storing sharpe ratio values and weightings
monte_carlo_df['Correlation Stocks Percentage'] = ranking_weight_array*100
monte_carlo_df['SD/Beta Stocks Percentage'] = correlation_weight_array*100
monte_carlo_df['Monte Carlo Prediction'] = predicted_price_array

monte_carlo_df
```

```
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247881.3667700219
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13859.726574491488
-82295.88985738058
810754.7545589427
26702652.31967732
4571.535466882329
77662.73038945178
2266125.6656150213
69271677.53007124
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104451.24050519685

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-11533.239137645047
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48688.33899397256
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-40550.64344831659
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-57.905153888544326
-186.73480589139942
959.7056524873394
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8053.26208132733
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2541525.4882657626
64424732.10121261
-7971.469725407483
-25290.29429841492
-258769.53855741053
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93489.509555823
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3731483.4256507186
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-7059613.815333082
-76671848.90857653
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-738845.4406387721
6916.193921681926
-132940.1325254797
717118.8748301351
-26931919.857260954
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6982.742239776743

-68280.45850035854
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-8179.3366509654925
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3472417.909338891
2744.211213551434
-25230.512197681914
495306.77936964633
-10992210.60520446
1590.0206236151228
-9870.226982523265
132110.6505390332
1172191.6593931594
-4490.52530926347
-114011.8792542772
827131.041896476
-15305878.893008996
2467.1544064274867
4512.220721428351
30783.37838144958
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-588.8022549638355
6045.739921981345
37877.875803629504
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-7174.24889990754
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-1436380.1661361277
32173644.601048578
-5757.535847110682
-19676.11275367452
-362070.5665793038
5753213.15344929
12055.35916423042
179234.050050297
911339.4699461712
-32352631.535427213
-2585.2941565384267
4233.849338109713
56558.0554364458
-668492.648854023
3107.819280363375
25328.78894338743
242157.03792525156
10287280.22305334
3762.39529613561
-17364.74227877609

391653.71657549695
-4318921.217180496
1640.2838679297977
2600.363171111667
-40251.627811605395
448547.72603206197
-2459.0658295228345
44421.111077895555
-367339.44466956216
9035216.097134192
-2871.4501604717625
45169.121219746885
700092.2798929937
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-1971.0137428239407
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-35926503.08816875
-4281.056611813844
21754.34568170554
-464873.43380317127
-4500453.155230841
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-8745.398939761959
43894.69215037055
47344.83127025266
9266.293510865393
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-37211457.51080114
-4396.089372335762
94539.96535240341
-2316357.5732285664
33712689.97377475
6664.0298818614465
29357.071986336334
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590971.8626901417
-3804.300403288736
62400.87095245552
2260202.643940483
-24841534.887959376
2500.0422747838898
-37248.67708656331
267162.5025230814
-6259426.079627197
4938.418659081123
-26967.56227300205

-86829.95925613324
1369808.3989152927
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15568.017840575763
-253676.7707551191
6803993.238680162
-1303.5974158769689
-51680.2317729321
-281009.1305141941
-1997120.3815051687
-4696.840247305808
21152.975788565876
289319.0373163657
2643942.288251912
13011.052368927427
-235458.14721267222
3022508.657020184
-45184094.87015058
4740.102089877999
-106368.62383344282
1741880.2876364419
-8071246.767724988
-10984.862952503532
-76153.61031328539
92183.21826119203
-924632.5695925368
6577.447831389665
-101625.17120858646
466811.0199246211
19615867.744059008
-1467.5947296753504
91.40339733639077
-116.36089341200338
741.1558177433246
472.54649054049423
3307.861196005933
1071.8797215913114
20747.14241924056
-1318.0753448576913
-10918.405291051105
-299359.07608183875
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99629.50653624661
1771844.8072103087
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-3.6016495044880434
-69.963717683661

1542.538744702344
-749.8228412374099
2094.7900463914693
30270.661659066962
300837.0651197882
-2588788.6136062797
3396.177475973474
49867.39903694852
410134.09117307095
-668237.6768930524
4559.79761678521
-32696.459008046306
-486623.11784924136
-5516803.7979122605
1595.2945486509211
26941.557870295568
-348894.1118436971
5841671.1894692555
-8325.987857259352
-12685.71318944777
102394.7364620045
18213.99604319534
1058.9000629981447
-19246.971383455915
-252093.8397762735
-3466605.8366800956
-48.97678610654738
399.39718294321074
6160.124091732935
-17258.01611130622
-1734.3550884320005
26410.62659341389
-175065.56284360774
600831.2447647275

```
[106]: Correlation Stocks Percentage SD/Beta Stocks Percentage \
0      70.0      30.0
1      75.0      25.0
2      80.0      20.0
3      85.0      15.0
4      90.0      10.0
5      95.0       5.0
```

	Monte Carlo Prediction
0	-728514.42
1	-124622.14
2	-455702.06

```

3          -259648.38
4          -314609.40
5          -298281.29

```

```

[107]: # Function finds the minimum value in magnitude
def get_min_absvalue(values):
    return min(values, key = abs)

values = monte_carlo_df.iloc[:,2]
min_absvalue = get_min_absvalue(values)

# Printing the weighting with the least nomial change in portfolio value
monte_carlo_df.loc[monte_carlo_df['Monte Carlo Prediction'] == min_absvalue]

```

```

[107]: Correlation Stocks Percentage  SD/Beta Stocks Percentage \
1                                75.0                        25.0

      Monte Carlo Prediction
1                -124622.14

```

```

[105]: corr_stock_weighting = monte_carlo_df['Correlation Stocks Percentage'][0]
stat_stock_weighting = monte_carlo_df['SD/Beta Stocks Percentage'][0]

corr_stocks_amount = corr_stocks_number * 2
def combine_portfolios(df1, df2, df1_tickers, df2_tickers):
    #Prioritize df1, that's the one we definitely keep all the stocks from, df2
    ↳used to supplement
    final_df = pd.DataFrame()
    for i in range (max_stocks):
        if i < len(df1_tickers):
            final_df[df1_tickers[i]] = df1[df1_tickers[i]]
        else:
            for j in range (corr_stocks_amount):
                if df2_tickers[j] not in final_df.columns:
                    final_df[df2_tickers[j]] = df2[df2_tickers[j]]
                    break

    return final_df

```

```

[77]: corr_stocks_amount = corr_stocks_number * 2
def combine_portfolios(df1, df2, df1_tickers, df2_tickers):
    #Prioritize df1, that's the one we definitely keep all the stocks from, df2
    ↳used to supplement
    final_df = pd.DataFrame()
    count = 0
    for i in range (max_stocks):
        if i < len(df1_tickers):

```

```

        final_df[df1_tickers[i]] = df1[df1_tickers[i]]

    elif df2_tickers[count] not in final_df.columns:
        final_df[df2_tickers[count]] = df2[df2_tickers[count]]
        count += 1
    elif df2_tickers[count+1] not in final_df.columns:
        final_df[df2_tickers[count+1]] = df2[df2_tickers[count+1]]
        count += 2
    elif df2_tickers[count+2] not in final_df.columns:
        final_df[df2_tickers[count+2]] = df2[df2_tickers[count+2]]
        count += 3
    elif df2_tickers[count+3] not in final_df.columns:
        final_df[df2_tickers[count+3]] = df2[df2_tickers[count+3]]
        count += 4
    elif df2_tickers[count+4] not in final_df.columns:
        final_df[df2_tickers[count+4]] = df2[df2_tickers[count+4]]
        count += 5
    elif df2_tickers[count+5] not in final_df.columns:
        final_df[df2_tickers[count+5]] = df2[df2_tickers[count+5]]
        count += 6

    return final_df

```

```

[78]: final_portfolio = combine_portfolios(corr_prices, selected_portfolio,
    ↪ corr_tickers, selected_tickers)
final_tickers = list(final_portfolio.columns)
final_tickers_df = pd.DataFrame(selected_tickers)
final_tickers_df.columns = ['tickers']
stdbeta_tickers = final_tickers_df.loc[final_tickers_df['tickers'].
    ↪ isin(final_tickers[corr_stocks_amount : len(final_tickers)])]

stdbeta_tickers

```

```

[78]:   tickers
1      BMY
2      CL
3      KO
5      ABBV
6      MRK
7      PEP
8      MO
9      SO
10     PM
11     LMT
12     CVS
13     PFE

```

```

14     ABT
15     COST
16     UNP
17     UNH
19     CMCSA
20     CSCO
21     KMI

```

```

[79]: Portfolio_Final = pd.DataFrame()
      current_date = '2022-11-25'
      current_date_end = '2022-11-26'
      portfolio_prices = []

      for i in range (len(final_tickers)):
          portfolio_prices.append(get_closing_prices(final_tickers[i], current_date,
      ↪current_date_end).iloc[0])

      portfolio_prices

```

```

[79]: [10.010000228881836,
      44.2599983215332,
      146.72000122070312,
      70.27999877929688,
      85.33999633789062,
      50.83000183105469,
      79.23999786376953,
      76.7699966430664,
      62.689998626708984,
      159.6199951171875,
      107.5,
      184.11000061035156,
      44.7400016784668,
      66.91000366210938,
      98.25,
      483.4599914550781,
      101.26000213623047,
      49.209999084472656,
      106.95999908447266,
      533.6599731445312,
      213.3300018310547,
      537.6199951171875,
      35.650001525878906,
      48.400001525878906,
      18.6299991607666]

```

```

[80]: index_list = [*range(1, len(final_tickers) + 1)]
      for i in range (len(final_tickers)):

```

```

Portfolio_Final['Ticker'] = final_tickers
final_shares = []
final_value = []
final_weight = []
for j in range(len(final_tickers)):
    if j < corr_stocks_amount:
        #corr_stocks_amount is the total number of stocks we have in our
        correlation portfolio
        #corr_stock_weighting is the percentage of our final portfolio that
        will consist of our correlation stocks
        final_weight.append(corr_stock_weighting / corr_stocks_amount)
        final_value.append(final_weight[j] * investment)
        final_shares.append(final_value[j] / portfolio_prices[j])
    else:
        #selected_ticker_weights is a list of all the weightings we gave to
        each individual stock in the initial
        # selected_portfolio (based on std and beta)
        final_weight.append(stat_stock_weighting *
        selected_ticker_weights[stdbeta_tickers.index[stdbeta_tickers['tickers'] ==
        final_tickers[j]].tolist()[0]])
        final_value.append(final_weight[j] * investment)
        final_shares.append(final_value[j] / portfolio_prices[j])

final_shares = final_shares / sum(final_weight)
final_value = final_value / sum(final_weight)
final_weight = final_weight / sum(final_weight)
Portfolio_Final['Price'] = portfolio_prices
Portfolio_Final['Shares'] = final_shares
Portfolio_Final['Value'] = final_value
Portfolio_Final['Weight'] = final_weight
Portfolio_Final['index'] = index_list
Portfolio_Final = Portfolio_Final.set_index('index')

Portfolio_Final

```

```

[80]:

```

	Ticker	Price	Shares	Value	Weight
index					
1	MON	10.010000	6222.873250	62290.962655	0.124582
2	USB	44.259998	1407.387370	62290.962655	0.124582
3	PG	146.720001	424.556721	62290.962655	0.124582
4	OXY	70.279999	886.325608	62290.962655	0.124582
5	NEE	85.339996	729.915225	62290.962655	0.124582
6	SLB	50.830002	1225.476302	62290.962655	0.124582
7	BMJ	79.239998	103.334160	8188.198596	0.016376
8	CL	76.769997	105.643039	8110.215753	0.016220
9	KO	62.689999	123.150450	7720.301534	0.015441
10	ABBV	159.619995	47.878204	7642.318690	0.015285

11	MRK	107.500000	71.091337	7642.318690	0.015285
12	PEP	184.110001	39.391692	7252.404471	0.014505
13	MO	44.740002	160.358099	7174.421627	0.014349
14	SO	66.910004	102.562993	6862.490252	0.013725
15	PM	98.250000	69.847229	6862.490252	0.013725
16	LMT	483.459991	13.871933	6706.524565	0.013413
17	CVS	101.260002	63.920362	6472.576033	0.012945
18	PFE	49.209999	128.360302	6316.610346	0.012633
19	ABT	106.959999	57.597651	6160.644658	0.012321
20	COST	533.659973	11.398010	6082.661814	0.012165
21	UNP	213.330002	27.416272	5848.713283	0.011697
22	UNH	537.619995	10.878898	5848.713283	0.011697
23	CMCSA	35.650002	146.559616	5224.850533	0.010450
24	CSCO	48.400002	106.340238	5146.867689	0.010294
25	KMI	18.629999	267.895986	4990.902002	0.009982

```
[92]: print("Total Portfolio Weight: ", np.round(Portfolio_Final['Weight'].sum() *
        ↪100, 2), "%", sep='')
print("Total Portfolio Value: $", np.round(Portfolio_Final['Value'].sum(), 2),
        ↪sep='')
```

Total Portfolio Weight: 100.0%
Total Portfolio Value: \$500000.0

```
[93]: Stocks_Final = Portfolio_Final.filter(['Ticker', 'Shares'], axis=1)

Stocks_Final.to_csv('Stocks_Group_03.csv')
```

```
[94]: final_prices = pd.DataFrame()
for i in range(len(final_tickers)):
    final_prices[final_tickers[i]] = all_prices[final_tickers[i]] *
        ↪Stocks_Final.iloc[i, 1]

final_prices['total'] = final_prices.sum('columns')
final_prices
```

```
[94]:
```

	MON	USB	PG	OXY \
Date				
2021-03-16	60890.813800	71336.195715	52419.986496	24784.897178
2021-03-17	60237.414957	72197.414092	52208.582695	25550.354825
2021-03-18	60797.474499	74555.849878	52322.411524	23421.156899
2021-03-19	60673.014186	73151.388480	52041.901296	24723.311100
2021-03-22	60361.869336	71866.183275	52924.102254	24160.216889
...
2022-11-17	62197.617420	60193.958479	59807.303244	63336.827143
2022-11-18	62197.617420	61052.465634	60529.054853	63150.699577
2022-11-21	62197.617420	61066.537146	61297.501482	61679.395821

2022-11-22	62290.962655	61798.379223	61823.947670	64497.911526
2022-11-23	62290.962655	62079.857771	62176.330526	63035.479682

	NEE	SLB	BMJ	CL	KO \
Date					
2021-03-16	53109.307179	33571.229633	6061.159224	7692.595614	6031.176589
2021-03-17	51404.287539	33870.331699	6088.576219	7686.511983	6033.532074
2021-03-18	50114.951813	32602.139219	6103.264472	7713.891546	5954.638348
2021-03-19	49910.626560	32362.856164	6139.493947	7603.359357	5982.899004
2021-03-22	50509.502088	33080.702992	6206.079092	7683.468556	6005.271418
...
2022-11-17	59804.794726	64741.915258	7973.264143	7953.864506	7476.463699
2022-11-18	60422.086313	65489.451875	8003.230356	8077.466668	7529.418430
2022-11-21	60712.577782	64055.646846	8159.265158	8126.062370	7645.180154
2022-11-22	61082.953848	65734.548071	8148.931899	8067.959182	7678.430362
2022-11-23	61984.399597	63013.989185	8177.865338	8127.119026	7712.912807

	ABBV	...	CVS	PFE	ABT \
Date		...			
2021-03-16	4931.037861	...	4607.173553	4333.389230	6621.449593
2021-03-17	4673.008342	...	4542.119349	4328.552900	6587.843346
2021-03-18	4616.508394	...	4570.964271	4326.133022	6615.288272
2021-03-19	4600.937165	...	4491.181347	4297.107212	6735.148617
2021-03-22	4711.268313	...	4508.978510	4353.949872	6803.480791
...
2022-11-17	7285.147697	...	6067.960022	6203.653632	5907.214908
2022-11-18	7420.163853	...	6222.647182	6190.817308	5982.668129
2022-11-21	7522.144661	...	6257.164236	6184.399391	5983.243789
2022-11-22	7650.457897	...	6360.715399	6299.923859	6040.265779
2022-11-23	7631.306908	...	6395.871306	6270.400559	6106.502726

	COST	UNP	UNH	CMCSA	CSCD \
Date					
2021-03-16	3684.410622	5628.067852	3781.030712	8177.534468	5015.631542
2021-03-17	3706.252518	5644.018703	3755.226528	8101.450871	4990.387175
2021-03-18	3636.336049	5725.369344	3860.467785	7871.792315	4927.779474
2021-03-19	3703.099699	5604.140946	3898.108016	7814.024757	4945.956505
2021-03-22	3765.923369	5483.710740	3911.756439	7942.239821	5079.248921
...
2022-11-17	5942.010758	5752.482320	5606.005087	5021.132197	4954.391712
2022-11-18	5968.795804	5773.318536	5765.816131	5056.306751	5082.000079
2022-11-21	5965.376540	5819.652102	5626.457469	5034.322585	5063.922027
2022-11-22	6063.171662	5845.149034	5690.643235	5144.242297	5144.740836
2022-11-23	6092.122358	5826.506170	5762.661489	5207.262976	5164.945335

	KMI	total
Date		

2021-03-16	3828.119433	399579.973378
2021-03-17	3900.256792	398708.444504
2021-03-18	3789.645869	396953.299485
2021-03-19	3828.119433	395901.985424
2021-03-22	3794.455128	396906.600478
...
2022-11-17	4902.496346	492289.924576
2022-11-18	4934.644090	496553.604678
2022-11-21	4897.138815	495447.207395
2022-11-22	5015.012681	502702.921031
2022-11-23	4996.260044	500488.832016

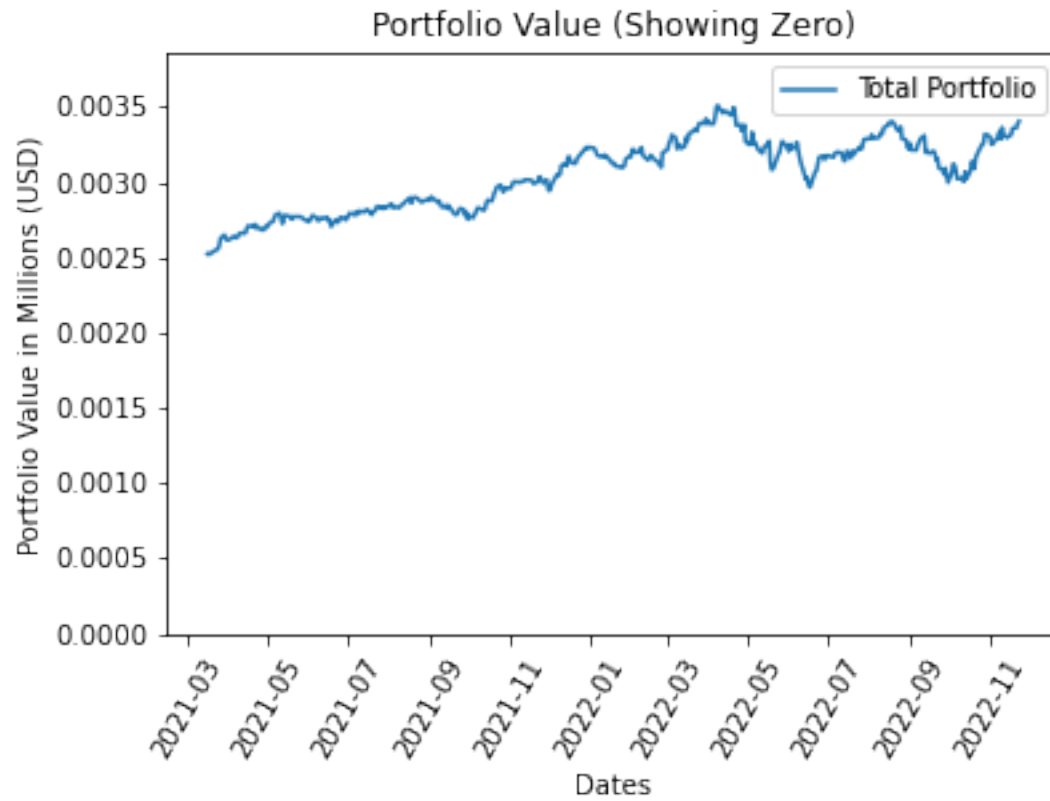
[418 rows x 26 columns]

```
[85]: #Graphs of the std/beta portfolio, without correlation stocks
#so that the graph will not automatically be in scientific notation
interval = ['Millions', 1000000] #First element is the name, second element is
    ↳the number

#Graph the selected portfolio value
plt.plot(final_prices.index, final_prices['total'] / interval[1], label='Total
    ↳Portfolio')

plt.title('Portfolio Value (Showing Zero)')
plt.xlabel('Dates')
plt.xticks(rotation=60)
plt.ylabel('Portfolio Value in ' + interval[0] + ' (USD)')
#Show zero so that we can get a more accurate idea of how much the portfolio
    ↳value changed overall, in the grand
# scheme of things
plt.ylim([0, max(final_prices['total'] / interval[1]) + 0.1 *
    ↳max(final_prices['total'] / interval[1])])
plt.legend(loc='best')

plt.show()
```



0.6 Contribution Declaration

The following team members made a meaningful contribution to this assignment:

- Ifan Zhao
- Sherry Feng
- Kelly Wang

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