

Portfolio Analysis

Religare Enterprises
Vakrangee Software
Petronet LNG
Reliance Industries

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UID: 229039
Roll no: 28

Executive summary

In this portfolio analysis report, we analyze a four-stock portfolio to demonstrate quantitative techniques for assessing risk and return. Using one year of daily price data, returns were calculated and summary statistics were computed. The goal is to understand the impact of combining several financial assets on portfolio returns and portfolio risk.

In an equally weighted (25%) portfolio, Vakrangee is the most volatile stock with a negative mean daily return of -0.00115. Correlation is not present suggesting it's a good model portfolio with annualized risk free return of 8.5% and annualized risk of 22%. Although the risk is a little high, overall returns are good. While a simple equally weighted approach was used, more advanced optimization techniques could improve the risk-return profile. The results can inform investment decisions, though further research is needed, particularly with more assets.

Thus, the project demonstrated core portfolio analysis techniques and provided evidence to support asset selection and weighting decisions aligned with investor risk return preferences. More complex methods could further improve portfolio construction.

Introduction

Portfolio Analysis is the process of reviewing or assessing the elements of the entire portfolio of securities or products in a business. The review is done for careful analysis of risk and return. Portfolio analysis conducted at regular intervals helps the investor to make changes in the portfolio allocation and change them according to the changing market and different circumstances. The analysis also helps in proper resource / asset allocation to different elements in the portfolio.

In this analysis we examine a portfolio including four different company stocks by collecting their data of daily stock returns for over a 1-year period from September 2022 to August 2023. The goal is to understand the impact of combining several financial assets on portfolio returns and portfolio risk.

We take four stocks of four Companies and analyze their daily return and then Portfolio daily returns. We Calculate Annualized Daily return and try to find an

optimal way to balance it with annualized risk. Summary statistics were computed on the daily returns, including means, medians, standard deviations, and measures of skewness and kurtosis. A variance covariance matrix was produced to assess relationships between the assets' returns. Correlations were visualized in a matrix plot. Assuming equal portfolio weights of 25% in each stock, statistics were calculated for the overall portfolio, including daily and annualized means and standard deviations

ANALYSIS

finance_Portfolio

R Markdown

```
library(moments)
library(stats)
```

Loading the Data

```
religare<-read.csv('c:/Users/Rajat/Downloads/RELIGARE.NS.csv')
vakrange<-read.csv('c:/Users/Rajat/Downloads/VAKRANGEE.NS.csv')
Petronet<-read.csv("C:/Users/Rajat/Downloads/PETRONET.NS.csv")
reliance<-read.csv('c:/Users/Rajat/Downloads/RELIANCE.NS.csv')
reliance
```

| ## | Date | Open | High | Low | Close | Adj.Close | Volume |
|-------|------------|---------|---------|---------|---------|-----------|---------|
| ## 1 | 2022-09-01 | 2582.65 | 2604.95 | 2550.70 | 2560.40 | 2551.387 | 9188434 |
| ## 2 | 2022-09-02 | 2560.40 | 2575.35 | 2525.70 | 2530.50 | 2521.593 | 5999196 |
| ## 3 | 2022-09-05 | 2531.00 | 2581.50 | 2531.00 | 2569.80 | 2560.754 | 5227785 |
| ## 4 | 2022-09-06 | 2573.00 | 2606.00 | 2572.00 | 2596.85 | 2587.709 | 5030172 |
| ## 5 | 2022-09-07 | 2575.00 | 2594.90 | 2570.00 | 2581.75 | 2572.662 | 3455942 |
| ## 6 | 2022-09-08 | 2588.25 | 2598.00 | 2571.00 | 2585.40 | 2576.299 | 3256840 |
| ## 7 | 2022-09-09 | 2610.00 | 2610.00 | 2564.00 | 2569.30 | 2560.256 | 3837302 |
| ## 8 | 2022-09-12 | 2570.55 | 2612.00 | 2570.55 | 2598.05 | 2588.905 | 3431445 |
| ## 9 | 2022-09-13 | 2618.00 | 2629.70 | 2601.00 | 2619.75 | 2610.529 | 4102114 |
| ## 10 | 2022-09-14 | 2575.00 | 2610.00 | 2572.75 | 2588.35 | 2579.239 | 4004997 |
| ## 11 | 2022-09-15 | 2583.00 | 2603.55 | 2556.75 | 2562.70 | 2553.679 | 4783723 |
| ## 12 | 2022-09-16 | 2543.75 | 2553.00 | 2491.00 | 2499.20 | 2490.403 | 9330469 |
| ## 13 | 2022-09-19 | 2499.20 | 2522.70 | 2481.35 | 2502.45 | 2493.641 | 3498286 |
| ## 14 | 2022-09-20 | 2522.45 | 2537.70 | 2494.70 | 2502.85 | 2494.040 | 3881882 |
| ## 15 | 2022-09-21 | 2496.75 | 2533.00 | 2495.00 | 2509.75 | 2500.916 | 4249172 |
| ## 16 | 2022-09-22 | 2486.00 | 2503.00 | 2472.10 | 2486.10 | 2477.349 | 4757219 |
| ## 17 | 2022-09-23 | 2485.00 | 2495.95 | 2436.10 | 2439.50 | 2430.913 | 4397194 |

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|-------|------------|---------|---------|---------|---------|----------|----------|
| ## 18 | 2022-09-26 | 2394.05 | 2417.80 | 2375.15 | 2377.35 | 2368.982 | 5759298 |
| ## 19 | 2022-09-27 | 2394.00 | 2426.00 | 2360.10 | 2396.25 | 2387.815 | 7455448 |
| ## 20 | 2022-09-28 | 2360.35 | 2378.00 | 2327.10 | 2332.45 | 2324.240 | 7844140 |
| ## 21 | 2022-09-29 | 2360.00 | 2367.50 | 2313.00 | 2325.30 | 2317.115 | 6771046 |
| ## 22 | 2022-09-30 | 2311.00 | 2402.00 | 2311.00 | 2377.75 | 2369.380 | 8589908 |
| ## 23 | 2022-10-03 | 2391.50 | 2416.95 | 2363.00 | 2369.50 | 2361.159 | 5470030 |
| ## 24 | 2022-10-04 | 2397.80 | 2418.00 | 2390.15 | 2413.20 | 2404.706 | 4129893 |
| ## 25 | 2022-10-06 | 2429.00 | 2450.00 | 2418.15 | 2422.10 | 2413.574 | 6162021 |
| ## 26 | 2022-10-07 | 2414.65 | 2443.90 | 2414.65 | 2432.35 | 2423.788 | 3560167 |
| ## 27 | 2022-10-10 | 2405.00 | 2417.60 | 2388.00 | 2405.80 | 2397.332 | 2921076 |
| ## 28 | 2022-10-11 | 2414.00 | 2414.00 | 2351.10 | 2357.90 | 2349.600 | 4252803 |
| ## 29 | 2022-10-12 | 2352.00 | 2381.70 | 2343.10 | 2375.25 | 2366.889 | 3422992 |
| ## 30 | 2022-10-13 | 2371.40 | 2394.00 | 2360.10 | 2382.80 | 2374.413 | 3382098 |
| ## 31 | 2022-10-14 | 2415.00 | 2416.35 | 2369.10 | 2370.70 | 2362.355 | 4202459 |
| ## 32 | 2022-10-17 | 2355.00 | 2414.00 | 2343.60 | 2408.75 | 2400.271 | 7720595 |
| ## 33 | 2022-10-18 | 2422.00 | 2463.00 | 2420.15 | 2451.25 | 2442.622 | 5729899 |
| ## 34 | 2022-10-19 | 2454.50 | 2527.85 | 2441.70 | 2493.90 | 2485.121 | 8882553 |
| ## 35 | 2022-10-20 | 2485.00 | 2519.00 | 2485.00 | 2500.60 | 2491.798 | 4022919 |
| ## 36 | 2022-10-21 | 2507.70 | 2516.80 | 2467.00 | 2471.60 | 2462.900 | 3804352 |
| ## 37 | 2022-10-24 | 2460.00 | 2502.50 | 2455.30 | 2479.85 | 2471.121 | 1555270 |
| ## 38 | 2022-10-25 | 2499.00 | 2499.00 | 2438.00 | 2441.55 | 2432.956 | 5645639 |
| ## 39 | 2022-10-27 | 2458.00 | 2468.45 | 2432.80 | 2451.15 | 2442.522 | 5774775 |
| ## 40 | 2022-10-28 | 2465.00 | 2535.00 | 2459.45 | 2526.15 | 2517.258 | 8126824 |
| ## 41 | 2022-10-31 | 2541.00 | 2560.95 | 2532.20 | 2549.60 | 2540.625 | 5731802 |
| ## 42 | 2022-11-01 | 2600.00 | 2600.00 | 2508.00 | 2529.85 | 2520.945 | 6443999 |
| ## 43 | 2022-11-02 | 2532.30 | 2550.20 | 2515.00 | 2545.65 | 2536.689 | 4145144 |
| ## 44 | 2022-11-03 | 2529.85 | 2559.55 | 2525.05 | 2555.15 | 2546.156 | 3089026 |
| ## 45 | 2022-11-04 | 2553.90 | 2600.00 | 2551.10 | 2592.75 | 2583.624 | 5803737 |
| ## 46 | 2022-11-07 | 2591.00 | 2610.30 | 2574.00 | 2606.60 | 2597.425 | 5440967 |
| ## 47 | 2022-11-09 | 2610.30 | 2621.95 | 2590.05 | 2604.00 | 2594.834 | 5193814 |
| ## 48 | 2022-11-10 | 2590.00 | 2596.55 | 2563.00 | 2572.50 | 2563.445 | 2753420 |
| ## 49 | 2022-11-11 | 2600.00 | 2636.00 | 2588.00 | 2631.80 | 2622.536 | 5681124 |
| ## 50 | 2022-11-14 | 2630.75 | 2642.00 | 2605.15 | 2619.05 | 2609.831 | 4173395 |
| ## 51 | 2022-11-15 | 2622.30 | 2626.40 | 2590.00 | 2607.30 | 2598.122 | 3270388 |
| ## 52 | 2022-11-16 | 2610.00 | 2615.95 | 2581.35 | 2592.35 | 2583.225 | 4484007 |
| ## 53 | 2022-11-17 | 2584.95 | 2613.00 | 2580.00 | 2599.05 | 2589.901 | 3074259 |
| ## 54 | 2022-11-18 | 2606.75 | 2609.00 | 2571.10 | 2597.65 | 2588.506 | 2447425 |
| ## 55 | 2022-11-21 | 2588.00 | 2588.00 | 2543.10 | 2550.90 | 2541.921 | 2949108 |
| ## 56 | 2022-11-22 | 2545.00 | 2568.50 | 2536.50 | 2565.05 | 2556.021 | 3051201 |
| ## 57 | 2022-11-23 | 2575.00 | 2577.90 | 2552.25 | 2557.05 | 2548.049 | 2959787 |
| ## 58 | 2022-11-24 | 2566.00 | 2594.00 | 2548.20 | 2579.10 | 2570.022 | 4333225 |
| ## 59 | 2022-11-25 | 2589.00 | 2624.90 | 2582.10 | 2617.60 | 2608.386 | 3391988 |
| ## 60 | 2022-11-28 | 2608.90 | 2721.05 | 2502.00 | 2707.55 | 2698.020 | 14549929 |
| ## 61 | 2022-11-29 | 2703.95 | 2731.65 | 2694.00 | 2712.20 | 2702.653 | 5103687 |
| ## 62 | 2022-11-30 | 2712.50 | 2745.45 | 2698.20 | 2731.35 | 2721.736 | 12075137 |
| ## 63 | 2022-12-01 | 2741.80 | 2755.00 | 2716.00 | 2723.30 | 2713.714 | 4377696 |
| ## 64 | 2022-12-02 | 2730.00 | 2748.00 | 2700.60 | 2722.15 | 2712.568 | 5348595 |
| ## 65 | 2022-12-05 | 2712.00 | 2716.75 | 2678.00 | 2682.45 | 2673.008 | 6843367 |
| ## 66 | 2022-12-06 | 2665.10 | 2697.00 | 2661.00 | 2690.20 | 2680.730 | 3966243 |
| ## 67 | 2022-12-07 | 2685.00 | 2695.00 | 2642.15 | 2650.50 | 2641.170 | 3905263 |

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|--------|------------|---------|---------|---------|---------|----------|----------|
| ## 68 | 2022-12-08 | 2660.00 | 2665.00 | 2640.10 | 2649.25 | 2639.925 | 3579858 |
| ## 69 | 2022-12-09 | 2646.00 | 2660.00 | 2601.85 | 2609.10 | 2599.916 | 5840633 |
| ## 70 | 2022-12-12 | 2585.50 | 2623.00 | 2585.00 | 2613.10 | 2603.902 | 4374946 |
| ## 71 | 2022-12-13 | 2613.10 | 2633.00 | 2606.70 | 2625.00 | 2615.760 | 3845839 |
| ## 72 | 2022-12-14 | 2637.65 | 2638.95 | 2611.00 | 2615.50 | 2606.293 | 3354618 |
| ## 73 | 2022-12-15 | 2602.50 | 2615.00 | 2571.00 | 2578.35 | 2569.274 | 4009765 |
| ## 74 | 2022-12-16 | 2571.00 | 2618.80 | 2558.15 | 2565.60 | 2556.569 | 7308934 |
| ## 75 | 2022-12-19 | 2581.00 | 2604.00 | 2566.70 | 2599.30 | 2590.150 | 3567363 |
| ## 76 | 2022-12-20 | 2583.90 | 2626.00 | 2566.00 | 2621.80 | 2612.571 | 3446291 |
| ## 77 | 2022-12-21 | 2621.00 | 2633.00 | 2576.10 | 2584.50 | 2575.403 | 3935463 |
| ## 78 | 2022-12-22 | 2598.00 | 2604.65 | 2566.75 | 2577.80 | 2568.726 | 3438692 |
| ## 79 | 2022-12-23 | 2563.30 | 2590.50 | 2492.25 | 2502.20 | 2493.392 | 4733657 |
| ## 80 | 2022-12-26 | 2514.75 | 2542.00 | 2492.40 | 2524.05 | 2515.165 | 2764496 |
| ## 81 | 2022-12-27 | 2530.00 | 2548.80 | 2515.25 | 2544.70 | 2535.743 | 2659749 |
| ## 82 | 2022-12-28 | 2538.00 | 2549.80 | 2521.50 | 2544.45 | 2535.493 | 3442509 |
| ## 83 | 2022-12-29 | 2527.00 | 2548.90 | 2525.50 | 2543.30 | 2534.348 | 3198493 |
| ## 84 | 2022-12-30 | 2545.10 | 2577.00 | 2541.10 | 2547.20 | 2538.234 | 3364092 |
| ## 85 | 2023-01-02 | 2550.00 | 2579.00 | 2548.20 | 2575.90 | 2566.833 | 2453414 |
| ## 86 | 2023-01-03 | 2565.05 | 2573.00 | 2547.80 | 2557.05 | 2548.049 | 3534596 |
| ## 87 | 2023-01-04 | 2557.00 | 2561.05 | 2514.00 | 2518.55 | 2509.685 | 4275746 |
| ## 88 | 2023-01-05 | 2523.50 | 2536.40 | 2504.00 | 2514.05 | 2505.201 | 6293519 |
| ## 89 | 2023-01-06 | 2526.65 | 2547.95 | 2518.30 | 2536.90 | 2527.970 | 2930338 |
| ## 90 | 2023-01-09 | 2545.30 | 2602.00 | 2543.35 | 2596.80 | 2587.659 | 4948549 |
| ## 91 | 2023-01-10 | 2606.00 | 2606.00 | 2546.00 | 2558.40 | 2549.394 | 3713755 |
| ## 92 | 2023-01-11 | 2552.50 | 2558.00 | 2521.10 | 2526.15 | 2517.258 | 5311657 |
| ## 93 | 2023-01-12 | 2524.85 | 2532.50 | 2465.00 | 2471.60 | 2462.900 | 8163366 |
| ## 94 | 2023-01-13 | 2458.40 | 2472.90 | 2434.60 | 2467.60 | 2458.914 | 9515473 |
| ## 95 | 2023-01-16 | 2472.70 | 2479.65 | 2427.00 | 2444.10 | 2435.497 | 6287407 |
| ## 96 | 2023-01-17 | 2458.00 | 2483.00 | 2450.60 | 2478.80 | 2470.075 | 4961585 |
| ## 97 | 2023-01-18 | 2473.50 | 2491.10 | 2460.35 | 2474.70 | 2465.989 | 6206382 |
| ## 98 | 2023-01-19 | 2472.90 | 2481.15 | 2456.65 | 2472.05 | 2463.348 | 5510333 |
| ## 99 | 2023-01-20 | 2475.00 | 2475.00 | 2437.25 | 2442.65 | 2434.052 | 6890325 |
| ## 100 | 2023-01-23 | 2449.00 | 2466.20 | 2425.00 | 2430.30 | 2421.745 | 5055324 |
| ## 101 | 2023-01-24 | 2440.00 | 2443.65 | 2387.35 | 2415.95 | 2407.446 | 7609558 |
| ## 102 | 2023-01-25 | 2412.45 | 2414.70 | 2380.00 | 2382.55 | 2374.163 | 5715684 |
| ## 103 | 2023-01-27 | 2384.40 | 2387.35 | 2311.65 | 2337.35 | 2329.123 | 11920991 |
| ## 104 | 2023-01-30 | 2331.70 | 2371.90 | 2301.00 | 2359.75 | 2351.444 | 10047822 |
| ## 105 | 2023-01-31 | 2382.00 | 2387.65 | 2341.00 | 2353.85 | 2345.564 | 10472167 |
| ## 106 | 2023-02-01 | 2379.95 | 2379.95 | 2305.00 | 2339.90 | 2331.663 | 8929007 |
| ## 107 | 2023-02-02 | 2318.00 | 2348.00 | 2311.00 | 2326.95 | 2318.759 | 6305317 |
| ## 108 | 2023-02-03 | 2349.00 | 2349.00 | 2293.00 | 2329.00 | 2320.802 | 11398850 |
| ## 109 | 2023-02-06 | 2315.00 | 2321.00 | 2305.80 | 2311.45 | 2303.314 | 6847679 |
| ## 110 | 2023-02-07 | 2312.00 | 2327.40 | 2293.00 | 2305.90 | 2297.783 | 6985001 |
| ## 111 | 2023-02-08 | 2313.00 | 2359.90 | 2307.00 | 2351.95 | 2343.671 | 9765490 |
| ## 112 | 2023-02-09 | 2353.45 | 2370.85 | 2334.00 | 2356.05 | 2347.757 | 6079228 |
| ## 113 | 2023-02-10 | 2354.90 | 2354.90 | 2321.30 | 2336.65 | 2328.425 | 4979789 |
| ## 114 | 2023-02-13 | 2340.20 | 2350.00 | 2313.55 | 2323.35 | 2315.172 | 4777674 |
| ## 115 | 2023-02-14 | 2329.95 | 2381.90 | 2323.65 | 2378.10 | 2369.729 | 6609564 |
| ## 116 | 2023-02-15 | 2376.00 | 2437.20 | 2373.00 | 2431.95 | 2423.389 | 15461902 |
| ## 117 | 2023-02-16 | 2449.45 | 2463.80 | 2425.05 | 2430.05 | 2421.496 | 7967558 |

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|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 118 | 2023-02-17 | 2420.00 | 2447.50 | 2410.60 | 2440.20 | 2431.610 | 5450092 |
| ## | 119 | 2023-02-20 | 2445.00 | 2449.75 | 2410.10 | 2414.40 | 2405.901 | 4078245 |
| ## | 120 | 2023-02-21 | 2424.00 | 2446.80 | 2412.35 | 2434.10 | 2425.532 | 6143298 |
| ## | 121 | 2023-02-22 | 2425.95 | 2430.00 | 2375.05 | 2378.90 | 2370.526 | 5087729 |
| ## | 122 | 2023-02-23 | 2378.00 | 2394.75 | 2361.35 | 2367.50 | 2359.166 | 4546655 |
| ## | 123 | 2023-02-24 | 2372.00 | 2396.15 | 2368.00 | 2383.70 | 2375.309 | 4353814 |
| ## | 124 | 2023-02-27 | 2382.00 | 2389.65 | 2351.70 | 2367.85 | 2359.515 | 5168667 |
| ## | 125 | 2023-02-28 | 2356.10 | 2367.00 | 2313.65 | 2322.55 | 2314.375 | 10150245 |
| ## | 126 | 2023-03-01 | 2344.00 | 2345.50 | 2323.25 | 2343.90 | 2335.649 | 5330852 |
| ## | 127 | 2023-03-02 | 2337.00 | 2351.65 | 2321.60 | 2326.05 | 2317.862 | 4307425 |
| ## | 128 | 2023-03-03 | 2349.15 | 2393.45 | 2341.55 | 2385.40 | 2377.003 | 6758115 |
| ## | 129 | 2023-03-06 | 2400.00 | 2424.60 | 2400.00 | 2408.70 | 2400.221 | 4694338 |
| ## | 130 | 2023-03-08 | 2408.70 | 2419.00 | 2385.00 | 2417.35 | 2408.841 | 7283694 |
| ## | 131 | 2023-03-09 | 2416.00 | 2416.90 | 2355.10 | 2359.25 | 2350.945 | 7492509 |
| ## | 132 | 2023-03-10 | 2341.50 | 2344.00 | 2315.05 | 2322.70 | 2314.524 | 6153681 |
| ## | 133 | 2023-03-13 | 2329.00 | 2344.00 | 2275.00 | 2284.50 | 2276.458 | 5894088 |
| ## | 134 | 2023-03-14 | 2280.00 | 2304.95 | 2269.05 | 2275.95 | 2267.938 | 7396699 |
| ## | 135 | 2023-03-15 | 2284.10 | 2298.30 | 2227.40 | 2237.05 | 2229.176 | 10027725 |
| ## | 136 | 2023-03-16 | 2243.00 | 2254.00 | 2202.20 | 2225.90 | 2218.065 | 8474595 |
| ## | 137 | 2023-03-17 | 2244.75 | 2251.95 | 2212.70 | 2223.10 | 2215.275 | 15697554 |
| ## | 138 | 2023-03-20 | 2215.00 | 2220.00 | 2180.00 | 2201.25 | 2193.501 | 9010595 |
| ## | 139 | 2023-03-21 | 2218.95 | 2274.00 | 2217.00 | 2269.70 | 2261.711 | 9876263 |
| ## | 140 | 2023-03-22 | 2285.00 | 2291.45 | 2270.00 | 2276.60 | 2268.586 | 5039622 |
| ## | 141 | 2023-03-23 | 2268.00 | 2269.90 | 2243.05 | 2247.80 | 2239.888 | 7499082 |
| ## | 142 | 2023-03-24 | 2245.25 | 2250.00 | 2198.00 | 2203.30 | 2195.544 | 5711497 |
| ## | 143 | 2023-03-27 | 2217.50 | 2254.00 | 2200.20 | 2237.55 | 2229.674 | 6486068 |
| ## | 144 | 2023-03-28 | 2245.00 | 2256.50 | 2237.00 | 2248.00 | 2240.087 | 5804018 |
| ## | 145 | 2023-03-29 | 2239.00 | 2244.80 | 2211.10 | 2234.70 | 2226.834 | 8678073 |
| ## | 146 | 2023-03-31 | 2255.00 | 2343.45 | 2254.70 | 2331.05 | 2322.845 | 13001005 |
| ## | 147 | 2023-04-03 | 2345.00 | 2349.00 | 2315.00 | 2331.45 | 2323.243 | 4750238 |
| ## | 148 | 2023-04-05 | 2348.00 | 2348.00 | 2308.55 | 2325.85 | 2317.663 | 7505339 |
| ## | 149 | 2023-04-06 | 2318.15 | 2354.00 | 2318.15 | 2341.45 | 2333.208 | 8507771 |
| ## | 150 | 2023-04-10 | 2350.00 | 2350.40 | 2321.55 | 2324.85 | 2316.667 | 5981688 |
| ## | 151 | 2023-04-11 | 2334.00 | 2341.00 | 2324.05 | 2336.35 | 2328.126 | 4865301 |
| ## | 152 | 2023-04-12 | 2336.35 | 2367.80 | 2330.05 | 2346.65 | 2338.390 | 8389646 |
| ## | 153 | 2023-04-13 | 2353.00 | 2365.80 | 2342.00 | 2355.50 | 2347.208 | 5712541 |
| ## | 154 | 2023-04-17 | 2424.95 | 2424.95 | 2349.05 | 2367.45 | 2359.116 | 8274452 |
| ## | 155 | 2023-04-18 | 2377.00 | 2377.00 | 2326.00 | 2340.35 | 2332.112 | 4802172 |
| ## | 156 | 2023-04-19 | 2339.05 | 2357.90 | 2332.20 | 2352.00 | 2343.721 | 5664207 |
| ## | 157 | 2023-04-20 | 2354.10 | 2359.00 | 2332.10 | 2346.05 | 2337.792 | 3233882 |
| ## | 158 | 2023-04-21 | 2350.65 | 2361.00 | 2336.40 | 2349.00 | 2340.731 | 3529236 |
| ## | 159 | 2023-04-24 | 2375.00 | 2380.90 | 2348.00 | 2358.00 | 2349.700 | 5970048 |
| ## | 160 | 2023-04-25 | 2366.00 | 2380.60 | 2350.50 | 2376.05 | 2367.686 | 4262471 |
| ## | 161 | 2023-04-26 | 2379.00 | 2386.10 | 2354.05 | 2362.10 | 2353.785 | 3977129 |
| ## | 162 | 2023-04-27 | 2375.00 | 2384.00 | 2364.00 | 2377.05 | 2368.683 | 4230627 |
| ## | 163 | 2023-04-28 | 2382.00 | 2423.90 | 2381.75 | 2420.50 | 2411.980 | 7183342 |
| ## | 164 | 2023-05-02 | 2436.20 | 2445.80 | 2428.10 | 2441.05 | 2432.458 | 5991101 |
| ## | 165 | 2023-05-03 | 2445.00 | 2445.00 | 2413.05 | 2420.10 | 2411.581 | 3259053 |
| ## | 166 | 2023-05-04 | 2421.15 | 2452.85 | 2414.60 | 2448.00 | 2439.383 | 3985159 |
| ## | 167 | 2023-05-05 | 2441.00 | 2461.35 | 2436.00 | 2441.75 | 2433.155 | 4036548 |

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|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 168 | 2023-05-08 | 2450.00 | 2483.65 | 2444.15 | 2471.90 | 2463.199 | 4224469 |
| ## | 169 | 2023-05-09 | 2475.00 | 2486.80 | 2463.25 | 2479.55 | 2470.822 | 2983468 |
| ## | 170 | 2023-05-10 | 2490.00 | 2499.85 | 2481.20 | 2496.60 | 2487.812 | 5017544 |
| ## | 171 | 2023-05-11 | 2498.95 | 2509.50 | 2476.55 | 2480.30 | 2471.569 | 4872451 |
| ## | 172 | 2023-05-12 | 2469.80 | 2487.40 | 2456.50 | 2484.35 | 2475.605 | 3209889 |
| ## | 173 | 2023-05-15 | 2489.90 | 2504.55 | 2473.15 | 2489.25 | 2480.488 | 3153587 |
| ## | 174 | 2023-05-16 | 2494.00 | 2499.60 | 2450.15 | 2453.80 | 2445.163 | 4023000 |
| ## | 175 | 2023-05-17 | 2463.00 | 2465.00 | 2429.00 | 2439.30 | 2430.714 | 4060722 |
| ## | 176 | 2023-05-18 | 2449.55 | 2457.00 | 2427.15 | 2434.05 | 2425.482 | 4857531 |
| ## | 177 | 2023-05-19 | 2434.05 | 2445.95 | 2418.85 | 2441.95 | 2433.354 | 3715280 |
| ## | 178 | 2023-05-22 | 2435.00 | 2466.00 | 2432.35 | 2455.00 | 2446.358 | 3431208 |
| ## | 179 | 2023-05-23 | 2460.65 | 2468.00 | 2451.45 | 2454.55 | 2445.910 | 2811473 |
| ## | 180 | 2023-05-24 | 2445.90 | 2464.00 | 2433.45 | 2440.25 | 2431.660 | 3743804 |
| ## | 181 | 2023-05-25 | 2433.90 | 2449.00 | 2416.05 | 2439.95 | 2431.361 | 5301647 |
| ## | 182 | 2023-05-26 | 2458.00 | 2509.00 | 2450.75 | 2506.50 | 2497.677 | 5827017 |
| ## | 183 | 2023-05-29 | 2521.00 | 2530.00 | 2507.20 | 2520.60 | 2511.728 | 4619754 |
| ## | 184 | 2023-05-30 | 2520.60 | 2537.70 | 2514.35 | 2519.95 | 2511.080 | 5234564 |
| ## | 185 | 2023-05-31 | 2500.00 | 2509.85 | 2461.00 | 2469.90 | 2461.206 | 12510304 |
| ## | 186 | 2023-06-01 | 2480.15 | 2484.90 | 2458.00 | 2463.25 | 2454.579 | 6734525 |
| ## | 187 | 2023-06-02 | 2471.00 | 2482.85 | 2451.00 | 2455.20 | 2446.558 | 7291995 |
| ## | 188 | 2023-06-05 | 2467.20 | 2483.75 | 2458.45 | 2477.25 | 2468.530 | 5034355 |
| ## | 189 | 2023-06-06 | 2483.45 | 2487.70 | 2462.00 | 2479.35 | 2470.623 | 3458161 |
| ## | 190 | 2023-06-07 | 2487.00 | 2500.00 | 2472.60 | 2498.15 | 2489.356 | 4759238 |
| ## | 191 | 2023-06-08 | 2506.00 | 2516.85 | 2491.00 | 2499.65 | 2490.851 | 5570815 |
| ## | 192 | 2023-06-09 | 2507.00 | 2508.55 | 2478.00 | 2481.95 | 2473.213 | 2712243 |
| ## | 193 | 2023-06-12 | 2475.50 | 2489.20 | 2465.00 | 2484.15 | 2475.406 | 2949893 |
| ## | 194 | 2023-06-13 | 2495.00 | 2523.45 | 2486.25 | 2520.85 | 2511.977 | 5190958 |
| ## | 195 | 2023-06-14 | 2521.00 | 2555.00 | 2517.00 | 2551.85 | 2542.868 | 6127509 |
| ## | 196 | 2023-06-15 | 2551.80 | 2562.55 | 2535.50 | 2552.55 | 2543.565 | 5451926 |
| ## | 197 | 2023-06-16 | 2560.20 | 2582.40 | 2560.20 | 2577.40 | 2568.327 | 11155180 |
| ## | 198 | 2023-06-19 | 2584.00 | 2584.00 | 2542.65 | 2551.80 | 2542.818 | 3137532 |
| ## | 199 | 2023-06-20 | 2547.55 | 2564.00 | 2535.00 | 2557.10 | 2548.099 | 3194085 |
| ## | 200 | 2023-06-21 | 2557.00 | 2569.85 | 2548.00 | 2564.30 | 2555.274 | 3212779 |
| ## | 201 | 2023-06-22 | 2556.00 | 2573.30 | 2532.00 | 2535.50 | 2526.575 | 3516244 |
| ## | 202 | 2023-06-23 | 2528.90 | 2533.40 | 2512.00 | 2514.75 | 2505.898 | 3059084 |
| ## | 203 | 2023-06-26 | 2507.00 | 2515.40 | 2488.70 | 2495.55 | 2486.766 | 5833893 |
| ## | 204 | 2023-06-27 | 2496.55 | 2509.50 | 2486.65 | 2496.45 | 2487.662 | 4471687 |
| ## | 205 | 2023-06-28 | 2496.45 | 2496.45 | 2496.45 | 2496.45 | 2487.662 | 0 |
| ## | 206 | 2023-06-30 | 2546.40 | 2556.65 | 2533.45 | 2550.25 | 2541.273 | 5146441 |
| ## | 207 | 2023-07-03 | 2558.05 | 2622.00 | 2555.35 | 2615.70 | 2606.493 | 5609248 |
| ## | 208 | 2023-07-04 | 2625.00 | 2625.00 | 2573.25 | 2588.75 | 2579.637 | 3720447 |
| ## | 209 | 2023-07-05 | 2609.00 | 2609.00 | 2575.80 | 2584.50 | 2575.403 | 4729479 |
| ## | 210 | 2023-07-06 | 2576.05 | 2644.45 | 2576.05 | 2638.75 | 2629.462 | 8822948 |
| ## | 211 | 2023-07-07 | 2635.00 | 2664.95 | 2628.00 | 2633.60 | 2624.330 | 6172684 |
| ## | 212 | 2023-07-10 | 2688.90 | 2756.00 | 2675.00 | 2735.05 | 2725.423 | 15340262 |
| ## | 213 | 2023-07-11 | 2752.90 | 2770.00 | 2737.60 | 2764.70 | 2754.968 | 9262001 |
| ## | 214 | 2023-07-12 | 2766.30 | 2802.00 | 2761.65 | 2767.75 | 2758.008 | 8645662 |
| ## | 215 | 2023-07-13 | 2783.90 | 2799.00 | 2737.25 | 2743.00 | 2733.345 | 6776172 |
| ## | 216 | 2023-07-14 | 2750.00 | 2760.90 | 2725.10 | 2740.70 | 2731.053 | 6979790 |
| ## | 217 | 2023-07-17 | 2747.00 | 2815.05 | 2728.00 | 2796.70 | 2786.855 | 10254545 |

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|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 218 | 2023-07-18 | 2817.00 | 2837.45 | 2793.00 | 2820.45 | 2810.522 | 11937761 |
| ## | 219 | 2023-07-19 | 2830.00 | 2856.00 | 2797.00 | 2841.85 | 2831.847 | 18054869 |
| ## | 220 | 2023-07-20 | 2580.00 | 2630.95 | 2580.00 | 2619.85 | 2610.628 | 19358812 |
| ## | 221 | 2023-07-21 | 2609.00 | 2614.90 | 2523.60 | 2538.75 | 2529.813 | 15124619 |
| ## | 222 | 2023-07-24 | 2481.00 | 2514.95 | 2469.30 | 2487.40 | 2478.644 | 11863933 |
| ## | 223 | 2023-07-25 | 2494.00 | 2505.20 | 2480.00 | 2485.80 | 2477.050 | 6013010 |
| ## | 224 | 2023-07-26 | 2485.00 | 2547.00 | 2485.00 | 2526.20 | 2517.308 | 6455506 |
| ## | 225 | 2023-07-27 | 2534.05 | 2537.65 | 2490.35 | 2502.70 | 2493.890 | 8613449 |
| ## | 226 | 2023-07-28 | 2512.05 | 2542.85 | 2500.55 | 2527.85 | 2518.952 | 10413926 |
| ## | 227 | 2023-07-31 | 2527.85 | 2553.90 | 2517.95 | 2549.25 | 2540.277 | 4275587 |
| ## | 228 | 2023-08-01 | 2555.00 | 2559.00 | 2505.30 | 2513.20 | 2504.354 | 4768316 |
| ## | 229 | 2023-08-02 | 2509.20 | 2512.00 | 2463.60 | 2486.35 | 2477.598 | 6374107 |
| ## | 230 | 2023-08-03 | 2475.30 | 2500.90 | 2458.05 | 2475.90 | 2467.185 | 5084175 |
| ## | 231 | 2023-08-04 | 2498.80 | 2516.00 | 2471.60 | 2509.55 | 2500.716 | 11442805 |
| ## | 232 | 2023-08-07 | 2521.00 | 2528.40 | 2505.00 | 2523.85 | 2514.966 | 2991435 |
| ## | 233 | 2023-08-08 | 2528.00 | 2534.45 | 2499.55 | 2508.65 | 2499.819 | 4922036 |
| ## | 234 | 2023-08-09 | 2504.85 | 2529.00 | 2481.10 | 2525.20 | 2516.311 | 5743293 |
| ## | 235 | 2023-08-10 | 2524.95 | 2550.00 | 2508.45 | 2536.45 | 2527.522 | 7735299 |
| ## | 236 | 2023-08-11 | 2532.45 | 2558.85 | 2512.35 | 2547.15 | 2538.184 | 11089665 |
| ## | 237 | 2023-08-14 | 2539.00 | 2582.30 | 2525.00 | 2577.25 | 2568.178 | 4787906 |
| ## | 238 | 2023-08-16 | 2551.00 | 2582.80 | 2551.00 | 2575.15 | 2566.085 | 5101556 |
| ## | 239 | 2023-08-17 | 2567.10 | 2578.10 | 2532.85 | 2538.00 | 2529.066 | 6836872 |
| ## | 240 | 2023-08-18 | 2531.25 | 2577.60 | 2508.55 | 2556.80 | 2547.800 | 9319989 |
| ## | 241 | 2023-08-21 | 2539.95 | 2555.45 | 2515.65 | 2520.00 | 2520.000 | 4610873 |
| ## | 242 | 2023-08-22 | 2516.90 | 2537.95 | 2499.00 | 2519.40 | 2519.400 | 3856522 |
| ## | 243 | 2023-08-23 | 2524.20 | 2542.85 | 2516.95 | 2522.20 | 2522.200 | 4758976 |
| ## | 244 | 2023-08-24 | 2539.90 | 2539.90 | 2471.00 | 2479.80 | 2479.800 | 7070010 |
| ## | 245 | 2023-08-25 | 2456.00 | 2505.00 | 2442.60 | 2468.35 | 2468.350 | 11111200 |
| ## | 246 | 2023-08-28 | 2472.00 | 2484.00 | 2431.10 | 2443.75 | 2443.750 | 6290413 |
| ## | 247 | 2023-08-29 | 2452.05 | 2453.45 | 2408.15 | 2420.35 | 2420.350 | 8438322 |
| ## | 248 | 2023-08-30 | 2432.00 | 2443.00 | 2415.00 | 2418.05 | 2418.050 | 6084473 |
| ## | 249 | 2023-08-31 | 2423.00 | 2425.00 | 2399.90 | 2407.00 | 2407.000 | 10819300 |
| ## | 250 | 2023-09-01 | 2406.55 | 2425.65 | 2401.65 | 2412.65 | 2412.650 | 9056421 |
| ## | 251 | 2023-09-04 | 2412.65 | 2423.65 | 2405.30 | 2410.70 | 2410.700 | 4673813 |
| ## | 252 | 2023-09-05 | 2420.00 | 2433.95 | 2412.45 | 2423.60 | 2423.600 | 4337938 |
| ## | 253 | 2023-09-06 | 2421.10 | 2436.15 | 2417.25 | 2428.70 | 2428.700 | 4100185 |
| ## | 254 | 2023-09-07 | 2421.70 | 2438.25 | 2411.00 | 2432.00 | 2432.000 | 6826286 |
| ## | 255 | 2023-09-08 | 2440.00 | 2456.00 | 2422.95 | 2448.20 | 2448.200 | 11554644 |
| ## | 256 | 2023-09-11 | 2452.00 | 2476.85 | 2452.00 | 2474.60 | 2474.600 | 6635537 |
| ## | 257 | 2023-09-12 | 2483.00 | 2483.00 | 2435.95 | 2438.85 | 2438.850 | 8127833 |
| ## | 258 | 2023-09-13 | 2440.00 | 2462.65 | 2426.25 | 2451.05 | 2451.050 | 6401669 |
| ## | 259 | 2023-09-14 | 2460.00 | 2465.80 | 2445.00 | 2453.30 | 2453.300 | 4604818 |
| ## | 260 | 2023-09-15 | 2468.00 | 2468.00 | 2449.50 | 2457.85 | 2457.850 | 12734296 |
| ## | 261 | 2023-09-18 | 2440.05 | 2451.00 | 2432.05 | 2436.45 | 2436.450 | 3758150 |
| ## | 262 | 2023-09-20 | 2423.05 | 2427.60 | 2355.00 | 2382.15 | 2382.150 | 28540942 |
| ## | 263 | 2023-09-21 | 2374.95 | 2390.10 | 2360.00 | 2364.80 | 2364.800 | 6113091 |
| ## | 264 | 2023-09-22 | 2376.00 | 2382.45 | 2350.00 | 2354.95 | 2354.950 | 9588393 |
| ## | 265 | 2023-09-25 | 2350.40 | 2360.70 | 2335.10 | 2340.45 | 2340.450 | 7127442 |
| ## | 266 | 2023-09-26 | 2338.55 | 2350.20 | 2335.60 | 2342.50 | 2342.500 | 5043891 |
| ## | 267 | 2023-09-27 | 2343.50 | 2371.80 | 2338.50 | 2368.90 | 2368.900 | 5861389 |

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|----|-----|------------|---------|---------|---------|---------|----------|---------|
| ## | 268 | 2023-09-28 | 2383.00 | 2383.00 | 2325.00 | 2334.10 | 2334.100 | 7259173 |
| ## | 269 | 2023-09-29 | 2341.80 | 2369.10 | 2334.10 | 2345.00 | 2345.000 | 6171007 |

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| ## | | Date | Open | High | Low | Close | Adj.Close | Volume |
|----|----|------------|-------|-------|-------|-------|-----------|----------|
| ## | 1 | 2022-09-01 | 27.50 | 27.85 | 27.50 | 27.70 | 27.57525 | 1240326 |
| ## | 2 | 2022-09-02 | 27.75 | 27.85 | 27.50 | 27.55 | 27.42592 | 1445871 |
| ## | 3 | 2022-09-05 | 27.55 | 33.05 | 27.45 | 32.90 | 32.75183 | 37733108 |
| ## | 4 | 2022-09-06 | 34.45 | 35.10 | 31.45 | 32.95 | 32.80161 | 27356416 |
| ## | 5 | 2022-09-07 | 32.65 | 37.90 | 32.30 | 37.05 | 36.88314 | 58153003 |
| ## | 6 | 2022-09-08 | 37.65 | 38.25 | 35.65 | 35.85 | 35.68854 | 16464712 |
| ## | 7 | 2022-09-09 | 35.90 | 39.00 | 35.35 | 37.65 | 37.48043 | 34087363 |
| ## | 8 | 2022-09-12 | 38.00 | 40.80 | 37.90 | 40.30 | 40.11850 | 29752179 |
| ## | 9 | 2022-09-13 | 41.00 | 45.70 | 40.95 | 45.30 | 45.09598 | 49454484 |
| ## | 10 | 2022-09-14 | 43.70 | 44.70 | 42.40 | 42.85 | 42.65702 | 23784277 |
| ## | 11 | 2022-09-15 | 42.95 | 43.95 | 38.80 | 39.15 | 38.97368 | 23017712 |
| ## | 12 | 2022-09-16 | 39.05 | 42.50 | 38.90 | 41.05 | 40.86512 | 27813909 |
| ## | 13 | 2022-09-19 | 41.30 | 42.70 | 40.55 | 41.80 | 41.61174 | 13383620 |
| ## | 14 | 2022-09-20 | 42.25 | 43.20 | 40.40 | 40.90 | 40.71580 | 8329122 |
| ## | 15 | 2022-09-21 | 41.05 | 41.35 | 38.80 | 39.00 | 38.82436 | 7466943 |
| ## | 16 | 2022-09-22 | 38.70 | 40.70 | 38.60 | 40.25 | 40.12016 | 8729312 |
| ## | 17 | 2022-09-23 | 40.50 | 40.65 | 38.50 | 38.90 | 38.77452 | 7804070 |
| ## | 18 | 2022-09-26 | 38.40 | 38.55 | 35.65 | 35.95 | 35.83403 | 6574271 |
| ## | 19 | 2022-09-27 | 36.35 | 37.20 | 34.20 | 34.75 | 34.63791 | 7737450 |
| ## | 20 | 2022-09-28 | 34.50 | 36.20 | 33.90 | 34.10 | 33.99000 | 12487623 |
| ## | 21 | 2022-09-29 | 34.85 | 35.30 | 32.70 | 33.10 | 32.99323 | 5909598 |
| ## | 22 | 2022-09-30 | 33.15 | 34.95 | 32.40 | 34.50 | 34.38871 | 9965788 |
| ## | 23 | 2022-10-03 | 34.45 | 36.00 | 33.85 | 35.65 | 35.53500 | 7638414 |
| ## | 24 | 2022-10-04 | 36.30 | 39.40 | 36.25 | 38.85 | 38.72467 | 12092548 |
| ## | 25 | 2022-10-06 | 39.65 | 40.00 | 38.50 | 39.20 | 39.07355 | 8446604 |
| ## | 26 | 2022-10-07 | 39.20 | 39.55 | 38.60 | 38.80 | 38.67484 | 5462037 |
| ## | 27 | 2022-10-10 | 37.80 | 38.15 | 36.85 | 37.05 | 36.93048 | 4899231 |
| ## | 28 | 2022-10-11 | 37.25 | 37.55 | 34.35 | 35.00 | 34.88710 | 6759167 |
| ## | 29 | 2022-10-12 | 35.20 | 35.75 | 33.90 | 35.00 | 34.88710 | 4869979 |
| ## | 30 | 2022-10-13 | 35.10 | 35.45 | 34.30 | 34.90 | 34.78742 | 3893503 |
| ## | 31 | 2022-10-14 | 36.00 | 36.20 | 34.05 | 34.40 | 34.28903 | 8089433 |
| ## | 32 | 2022-10-17 | 34.00 | 34.20 | 32.90 | 33.15 | 33.04307 | 4553206 |
| ## | 33 | 2022-10-18 | 33.40 | 35.35 | 33.40 | 33.85 | 33.74081 | 9626870 |
| ## | 34 | 2022-10-19 | 34.10 | 34.40 | 32.95 | 33.45 | 33.34210 | 4033163 |
| ## | 35 | 2022-10-20 | 33.00 | 33.65 | 32.85 | 33.00 | 32.89355 | 3758450 |
| ## | 36 | 2022-10-21 | 33.20 | 33.65 | 32.50 | 32.70 | 32.59452 | 2690621 |
| ## | 37 | 2022-10-24 | 32.70 | 33.20 | 32.45 | 32.70 | 32.59452 | 1116822 |
| ## | 38 | 2022-10-25 | 32.25 | 32.90 | 32.20 | 32.40 | 32.29549 | 2404066 |
| ## | 39 | 2022-10-27 | 32.70 | 33.30 | 31.80 | 32.10 | 31.99645 | 4483766 |
| ## | 40 | 2022-10-28 | 32.20 | 32.70 | 31.45 | 31.95 | 31.84694 | 3514155 |
| ## | 41 | 2022-10-31 | 32.20 | 32.60 | 31.35 | 31.50 | 31.39839 | 3900524 |
| ## | 42 | 2022-11-01 | 31.65 | 31.80 | 31.30 | 31.50 | 31.39839 | 2529629 |
| ## | 43 | 2022-11-02 | 31.90 | 34.70 | 31.55 | 34.00 | 33.89032 | 17983319 |
| ## | 44 | 2022-11-03 | 33.50 | 34.60 | 33.50 | 34.00 | 33.89032 | 4369705 |

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|-------|------------|-------|-------|-------|-------|----------|----------|
| ## 45 | 2022-11-04 | 34.20 | 34.30 | 33.20 | 33.70 | 33.59129 | 3714324 |
| ## 46 | 2022-11-07 | 33.90 | 34.30 | 33.25 | 33.55 | 33.44177 | 2878815 |
| ## 47 | 2022-11-09 | 33.60 | 33.85 | 32.90 | 33.05 | 32.94339 | 2728570 |
| ## 48 | 2022-11-10 | 33.10 | 33.25 | 32.25 | 32.35 | 32.24564 | 2379705 |
| ## 49 | 2022-11-11 | 32.80 | 32.85 | 31.80 | 32.15 | 32.04629 | 3315413 |
| ## 50 | 2022-11-14 | 32.30 | 33.85 | 32.05 | 33.30 | 33.19258 | 5409424 |
| ## 51 | 2022-11-15 | 33.30 | 33.45 | 32.50 | 32.90 | 32.79387 | 1531193 |
| ## 52 | 2022-11-16 | 32.80 | 32.90 | 32.15 | 32.40 | 32.29549 | 1531557 |
| ## 53 | 2022-11-17 | 32.15 | 32.90 | 32.10 | 32.20 | 32.09613 | 1880671 |
| ## 54 | 2022-11-18 | 32.35 | 33.00 | 30.95 | 31.10 | 30.99968 | 4718948 |
| ## 55 | 2022-11-21 | 31.10 | 32.05 | 30.75 | 30.90 | 30.80032 | 3398601 |
| ## 56 | 2022-11-22 | 31.05 | 31.35 | 28.00 | 28.40 | 28.30839 | 11538000 |
| ## 57 | 2022-11-23 | 28.80 | 30.70 | 28.60 | 29.60 | 29.50452 | 10710991 |
| ## 58 | 2022-11-24 | 29.90 | 30.60 | 29.80 | 30.00 | 29.90322 | 3859468 |
| ## 59 | 2022-11-25 | 30.05 | 30.30 | 29.85 | 30.00 | 29.90322 | 2885480 |
| ## 60 | 2022-11-28 | 30.25 | 30.80 | 29.80 | 29.95 | 29.85339 | 3211085 |
| ## 61 | 2022-11-29 | 30.10 | 30.35 | 29.90 | 30.00 | 29.90322 | 2102044 |
| ## 62 | 2022-11-30 | 30.15 | 30.90 | 29.85 | 30.60 | 30.50129 | 2229196 |
| ## 63 | 2022-12-01 | 30.85 | 31.30 | 30.60 | 30.75 | 30.65081 | 3872269 |
| ## 64 | 2022-12-02 | 30.75 | 30.95 | 30.60 | 30.85 | 30.75048 | 2879873 |
| ## 65 | 2022-12-05 | 31.00 | 31.75 | 30.40 | 30.65 | 30.55113 | 7117895 |
| ## 66 | 2022-12-06 | 30.70 | 30.95 | 30.10 | 30.25 | 30.15242 | 3310854 |
| ## 67 | 2022-12-07 | 30.40 | 30.40 | 29.85 | 29.95 | 29.85339 | 2375749 |
| ## 68 | 2022-12-08 | 30.10 | 30.20 | 29.75 | 30.00 | 29.90322 | 2280000 |
| ## 69 | 2022-12-09 | 30.00 | 30.20 | 25.60 | 27.25 | 27.16210 | 53032815 |
| ## 70 | 2022-12-12 | 27.45 | 29.05 | 27.30 | 28.45 | 28.35823 | 11654629 |
| ## 71 | 2022-12-13 | 28.70 | 28.80 | 28.15 | 28.50 | 28.40806 | 3812167 |
| ## 72 | 2022-12-14 | 28.75 | 29.80 | 28.30 | 29.55 | 29.45468 | 7764220 |
| ## 73 | 2022-12-15 | 29.50 | 29.80 | 28.70 | 28.85 | 28.75693 | 5143648 |
| ## 74 | 2022-12-16 | 28.85 | 29.70 | 28.25 | 28.55 | 28.45790 | 5727320 |
| ## 75 | 2022-12-19 | 28.40 | 28.95 | 28.30 | 28.40 | 28.30839 | 6327243 |
| ## 76 | 2022-12-20 | 28.30 | 28.50 | 27.90 | 28.30 | 28.20871 | 4745162 |
| ## 77 | 2022-12-21 | 28.50 | 28.85 | 27.45 | 27.55 | 27.46113 | 5168075 |
| ## 78 | 2022-12-22 | 27.65 | 27.95 | 26.80 | 27.00 | 26.91290 | 2517109 |
| ## 79 | 2022-12-23 | 26.60 | 26.95 | 25.50 | 25.65 | 25.56726 | 3809162 |
| ## 80 | 2022-12-26 | 25.80 | 27.50 | 25.35 | 27.30 | 27.21194 | 3528725 |
| ## 81 | 2022-12-27 | 27.80 | 28.00 | 27.10 | 27.25 | 27.16210 | 2173459 |
| ## 82 | 2022-12-28 | 27.20 | 27.90 | 27.20 | 27.55 | 27.46113 | 1995400 |
| ## 83 | 2022-12-29 | 27.40 | 27.50 | 27.10 | 27.30 | 27.21194 | 1823006 |
| ## 84 | 2022-12-30 | 27.45 | 28.05 | 27.45 | 27.75 | 27.66048 | 2256739 |
| ## 85 | 2023-01-02 | 27.85 | 28.40 | 27.60 | 27.95 | 27.85984 | 2654152 |
| ## 86 | 2023-01-03 | 27.95 | 28.50 | 27.90 | 28.25 | 28.15887 | 1863778 |
| ## 87 | 2023-01-04 | 28.25 | 28.35 | 27.65 | 27.80 | 27.71032 | 1363755 |
| ## 88 | 2023-01-05 | 27.95 | 28.00 | 27.40 | 27.75 | 27.66048 | 1198922 |
| ## 89 | 2023-01-06 | 28.20 | 28.20 | 27.40 | 27.55 | 27.46113 | 1407569 |
| ## 90 | 2023-01-09 | 27.75 | 27.95 | 27.10 | 27.25 | 27.16210 | 1820327 |
| ## 91 | 2023-01-10 | 27.15 | 27.25 | 26.90 | 27.15 | 27.06242 | 1331405 |
| ## 92 | 2023-01-11 | 27.25 | 27.45 | 26.95 | 27.15 | 27.06242 | 1479239 |
| ## 93 | 2023-01-12 | 27.30 | 27.30 | 26.80 | 26.95 | 26.86307 | 1185363 |
| ## 94 | 2023-01-13 | 27.10 | 27.45 | 27.00 | 27.30 | 27.21194 | 1357846 |

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|----|-----|------------|-------|-------|-------|-------|----------|----------|
| ## | 95 | 2023-01-16 | 27.30 | 27.60 | 27.05 | 27.15 | 27.06242 | 1363335 |
| ## | 96 | 2023-01-17 | 27.15 | 27.35 | 27.00 | 27.10 | 27.01258 | 1464798 |
| ## | 97 | 2023-01-18 | 27.10 | 27.35 | 27.00 | 27.05 | 26.96274 | 2005672 |
| ## | 98 | 2023-01-19 | 26.85 | 27.00 | 26.50 | 26.80 | 26.71355 | 1165652 |
| ## | 99 | 2023-01-20 | 27.00 | 27.10 | 26.60 | 26.65 | 26.56403 | 1426169 |
| ## | 100 | 2023-01-23 | 27.10 | 27.25 | 26.65 | 26.90 | 26.81322 | 1614525 |
| ## | 101 | 2023-01-24 | 26.90 | 27.10 | 26.80 | 26.95 | 26.86307 | 1381848 |
| ## | 102 | 2023-01-25 | 26.85 | 26.90 | 26.35 | 26.50 | 26.41452 | 1274415 |
| ## | 103 | 2023-01-27 | 26.65 | 26.70 | 25.55 | 25.85 | 25.76661 | 2062176 |
| ## | 104 | 2023-01-30 | 25.85 | 26.05 | 25.40 | 25.65 | 25.56726 | 1612227 |
| ## | 105 | 2023-01-31 | 25.80 | 27.35 | 25.60 | 26.95 | 26.86307 | 4231813 |
| ## | 106 | 2023-02-01 | 27.40 | 27.95 | 26.15 | 26.50 | 26.41452 | 3493273 |
| ## | 107 | 2023-02-02 | 26.50 | 27.30 | 26.30 | 26.75 | 26.66371 | 1884613 |
| ## | 108 | 2023-02-03 | 26.80 | 27.15 | 25.65 | 26.15 | 26.06564 | 2585237 |
| ## | 109 | 2023-02-06 | 25.60 | 26.05 | 25.15 | 25.75 | 25.66693 | 2208346 |
| ## | 110 | 2023-02-07 | 25.80 | 26.00 | 25.15 | 25.20 | 25.11871 | 2341918 |
| ## | 111 | 2023-02-08 | 25.25 | 25.70 | 25.15 | 25.30 | 25.21839 | 1524062 |
| ## | 112 | 2023-02-09 | 25.30 | 25.50 | 25.10 | 25.25 | 25.16855 | 1516200 |
| ## | 113 | 2023-02-10 | 25.35 | 25.35 | 25.00 | 25.05 | 24.96919 | 1079884 |
| ## | 114 | 2023-02-13 | 25.15 | 25.25 | 24.25 | 24.35 | 24.27145 | 2075893 |
| ## | 115 | 2023-02-14 | 24.35 | 24.60 | 23.70 | 23.95 | 23.87274 | 1850706 |
| ## | 116 | 2023-02-15 | 23.90 | 24.10 | 23.10 | 23.30 | 23.22484 | 2608327 |
| ## | 117 | 2023-02-16 | 23.45 | 24.70 | 23.40 | 24.00 | 23.92258 | 4096359 |
| ## | 118 | 2023-02-17 | 24.00 | 24.10 | 23.20 | 23.55 | 23.47403 | 1782914 |
| ## | 119 | 2023-02-20 | 23.55 | 23.65 | 23.15 | 23.25 | 23.17500 | 1254938 |
| ## | 120 | 2023-02-21 | 23.25 | 23.50 | 23.20 | 23.30 | 23.22484 | 1195445 |
| ## | 121 | 2023-02-22 | 23.30 | 23.35 | 22.60 | 22.70 | 22.62678 | 1772161 |
| ## | 122 | 2023-02-23 | 22.80 | 23.95 | 22.30 | 22.35 | 22.27791 | 1770476 |
| ## | 123 | 2023-02-24 | 22.50 | 22.70 | 21.80 | 22.30 | 22.22806 | 2777088 |
| ## | 124 | 2023-02-27 | 22.30 | 22.35 | 21.45 | 21.70 | 21.63000 | 1521795 |
| ## | 125 | 2023-02-28 | 21.75 | 22.70 | 21.65 | 21.75 | 21.67984 | 3376782 |
| ## | 126 | 2023-03-01 | 21.80 | 23.20 | 21.80 | 22.95 | 22.87597 | 4604300 |
| ## | 127 | 2023-03-02 | 23.10 | 23.40 | 22.85 | 23.00 | 22.92581 | 1960799 |
| ## | 128 | 2023-03-03 | 23.15 | 23.25 | 22.90 | 23.00 | 22.92581 | 1605702 |
| ## | 129 | 2023-03-06 | 23.00 | 23.70 | 22.90 | 23.00 | 22.92581 | 2346210 |
| ## | 130 | 2023-03-08 | 22.90 | 22.90 | 22.35 | 22.45 | 22.37758 | 2427017 |
| ## | 131 | 2023-03-09 | 22.45 | 22.65 | 22.45 | 22.50 | 22.42742 | 1672659 |
| ## | 132 | 2023-03-10 | 22.35 | 22.35 | 21.80 | 21.90 | 21.82935 | 2509109 |
| ## | 133 | 2023-03-13 | 22.05 | 22.70 | 20.70 | 20.85 | 20.78274 | 3872229 |
| ## | 134 | 2023-03-14 | 20.80 | 21.00 | 20.10 | 20.20 | 20.13484 | 3131654 |
| ## | 135 | 2023-03-15 | 20.40 | 22.40 | 20.20 | 20.45 | 20.38403 | 14007305 |
| ## | 136 | 2023-03-16 | 20.75 | 20.80 | 19.85 | 20.00 | 19.93548 | 3868110 |
| ## | 137 | 2023-03-17 | 20.30 | 20.45 | 19.35 | 19.45 | 19.38726 | 6074780 |
| ## | 138 | 2023-03-20 | 19.45 | 19.65 | 18.35 | 18.55 | 18.49016 | 7947597 |
| ## | 139 | 2023-03-21 | 18.70 | 19.55 | 17.90 | 18.05 | 17.99177 | 8784618 |
| ## | 140 | 2023-03-22 | 18.20 | 18.60 | 17.40 | 18.50 | 18.44032 | 16658998 |
| ## | 141 | 2023-03-23 | 18.85 | 19.05 | 16.25 | 16.75 | 16.69597 | 46521241 |
| ## | 142 | 2023-03-24 | 16.90 | 17.50 | 16.50 | 16.65 | 16.59629 | 13018513 |
| ## | 143 | 2023-03-27 | 16.75 | 17.15 | 15.20 | 15.95 | 15.89855 | 16638855 |
| ## | 144 | 2023-03-28 | 16.05 | 16.30 | 15.25 | 15.40 | 15.35032 | 10555193 |

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|----|-----|------------|-------|-------|-------|-------|----------|----------|
| ## | 145 | 2023-03-29 | 15.40 | 15.50 | 14.65 | 14.95 | 14.90177 | 15061555 |
| ## | 146 | 2023-03-31 | 15.15 | 16.55 | 15.10 | 16.00 | 15.94839 | 24855501 |
| ## | 147 | 2023-04-03 | 16.25 | 16.80 | 16.00 | 16.55 | 16.49661 | 13176858 |
| ## | 148 | 2023-04-05 | 16.70 | 16.70 | 16.10 | 16.45 | 16.39694 | 9856809 |
| ## | 149 | 2023-04-06 | 16.25 | 19.70 | 16.25 | 18.75 | 18.68952 | 67684215 |
| ## | 150 | 2023-04-10 | 18.80 | 19.25 | 16.85 | 17.00 | 16.94516 | 47104158 |
| ## | 151 | 2023-04-11 | 17.15 | 18.20 | 16.60 | 17.00 | 16.94516 | 46882328 |
| ## | 152 | 2023-04-12 | 17.15 | 17.20 | 16.75 | 16.85 | 16.79565 | 12300017 |
| ## | 153 | 2023-04-13 | 16.90 | 17.20 | 16.80 | 16.90 | 16.84548 | 9566722 |
| ## | 154 | 2023-04-17 | 16.90 | 16.90 | 16.50 | 16.70 | 16.64613 | 5634947 |
| ## | 155 | 2023-04-18 | 16.75 | 17.60 | 16.70 | 17.00 | 16.94516 | 15547216 |
| ## | 156 | 2023-04-19 | 17.20 | 17.65 | 17.00 | 17.15 | 17.09468 | 19336237 |
| ## | 157 | 2023-04-20 | 17.30 | 17.30 | 16.80 | 16.90 | 16.84548 | 6082012 |
| ## | 158 | 2023-04-21 | 17.00 | 17.25 | 16.50 | 17.00 | 16.94516 | 14769897 |
| ## | 159 | 2023-04-24 | 16.90 | 17.00 | 16.55 | 16.70 | 16.64613 | 4675609 |
| ## | 160 | 2023-04-25 | 16.75 | 17.15 | 16.60 | 16.65 | 16.59629 | 6738126 |
| ## | 161 | 2023-04-26 | 16.75 | 16.75 | 16.50 | 16.55 | 16.49661 | 3944013 |
| ## | 162 | 2023-04-27 | 16.60 | 17.25 | 16.55 | 16.70 | 16.64613 | 14028418 |
| ## | 163 | 2023-04-28 | 16.85 | 16.95 | 16.65 | 16.80 | 16.74581 | 4239594 |
| ## | 164 | 2023-05-02 | 16.90 | 18.70 | 16.85 | 17.75 | 17.69274 | 34127337 |
| ## | 165 | 2023-05-03 | 17.70 | 18.70 | 17.55 | 17.90 | 17.84226 | 13087686 |
| ## | 166 | 2023-05-04 | 18.10 | 18.20 | 17.75 | 17.95 | 17.89210 | 5418063 |
| ## | 167 | 2023-05-05 | 17.95 | 18.25 | 17.65 | 17.75 | 17.69274 | 4455035 |
| ## | 168 | 2023-05-08 | 17.85 | 17.90 | 17.45 | 17.55 | 17.49339 | 4003127 |
| ## | 169 | 2023-05-09 | 17.60 | 17.75 | 17.20 | 17.35 | 17.29403 | 3790934 |
| ## | 170 | 2023-05-10 | 17.40 | 17.50 | 17.00 | 17.10 | 17.04484 | 3330848 |
| ## | 171 | 2023-05-11 | 17.15 | 18.70 | 17.10 | 17.90 | 17.84226 | 34753356 |
| ## | 172 | 2023-05-12 | 17.90 | 18.90 | 17.70 | 18.00 | 17.94194 | 25726692 |
| ## | 173 | 2023-05-15 | 18.00 | 18.25 | 17.75 | 18.00 | 17.94194 | 9111684 |
| ## | 174 | 2023-05-16 | 18.10 | 18.20 | 17.60 | 17.75 | 17.69274 | 5216733 |
| ## | 175 | 2023-05-17 | 17.80 | 17.90 | 17.30 | 17.40 | 17.34387 | 6505127 |
| ## | 176 | 2023-05-18 | 17.50 | 17.75 | 16.95 | 17.05 | 16.99500 | 6555523 |
| ## | 177 | 2023-05-19 | 17.05 | 17.30 | 16.70 | 17.10 | 17.04484 | 4195108 |
| ## | 178 | 2023-05-22 | 17.25 | 17.25 | 16.80 | 17.10 | 17.04484 | 3433287 |
| ## | 179 | 2023-05-23 | 17.10 | 17.25 | 16.95 | 17.05 | 16.99500 | 2209204 |
| ## | 180 | 2023-05-24 | 17.00 | 17.40 | 16.90 | 17.25 | 17.19436 | 3445286 |
| ## | 181 | 2023-05-25 | 17.20 | 17.35 | 17.00 | 17.25 | 17.19436 | 2467695 |
| ## | 182 | 2023-05-26 | 17.25 | 17.35 | 17.10 | 17.25 | 17.19436 | 3089962 |
| ## | 183 | 2023-05-29 | 17.50 | 17.60 | 17.05 | 17.40 | 17.34387 | 4210464 |
| ## | 184 | 2023-05-30 | 17.45 | 17.50 | 17.05 | 17.25 | 17.19436 | 2939531 |
| ## | 185 | 2023-05-31 | 17.15 | 17.20 | 16.55 | 16.75 | 16.69597 | 14717196 |
| ## | 186 | 2023-06-01 | 16.65 | 16.90 | 16.55 | 16.75 | 16.69597 | 3969332 |
| ## | 187 | 2023-06-02 | 16.85 | 17.25 | 16.80 | 17.15 | 17.09468 | 5063075 |
| ## | 188 | 2023-06-05 | 17.40 | 18.65 | 17.30 | 17.90 | 17.84226 | 25582813 |
| ## | 189 | 2023-06-06 | 18.00 | 18.05 | 17.55 | 17.70 | 17.64290 | 4873235 |
| ## | 190 | 2023-06-07 | 17.75 | 18.05 | 17.60 | 17.80 | 17.74258 | 4103220 |
| ## | 191 | 2023-06-08 | 17.90 | 19.20 | 17.90 | 18.15 | 18.09145 | 20610287 |
| ## | 192 | 2023-06-09 | 18.25 | 18.90 | 17.90 | 18.70 | 18.63968 | 14479232 |
| ## | 193 | 2023-06-12 | 18.85 | 18.95 | 18.30 | 18.50 | 18.44032 | 5754457 |
| ## | 194 | 2023-06-13 | 18.50 | 18.75 | 18.10 | 18.15 | 18.09145 | 4270897 |

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|----|-----|------------|-------|-------|-------|-------|----------|----------|
| ## | 195 | 2023-06-14 | 18.15 | 18.25 | 17.55 | 17.70 | 17.64290 | 7765281 |
| ## | 196 | 2023-06-15 | 15.45 | 16.20 | 14.75 | 16.20 | 16.14774 | 1342470 |
| ## | 197 | 2023-06-16 | 16.20 | 17.00 | 16.20 | 17.00 | 16.94516 | 3223203 |
| ## | 198 | 2023-06-19 | 17.55 | 17.80 | 16.45 | 16.65 | 16.59629 | 2782211 |
| ## | 199 | 2023-06-20 | 16.90 | 16.90 | 16.25 | 16.65 | 16.59629 | 1827983 |
| ## | 200 | 2023-06-21 | 16.70 | 16.85 | 16.40 | 16.50 | 16.44677 | 1597323 |
| ## | 201 | 2023-06-22 | 16.70 | 16.70 | 16.05 | 16.15 | 16.09790 | 2309429 |
| ## | 202 | 2023-06-23 | 16.20 | 16.35 | 16.10 | 16.25 | 16.19758 | 604008 |
| ## | 203 | 2023-06-26 | 16.00 | 16.25 | 15.95 | 16.00 | 15.94839 | 1024698 |
| ## | 204 | 2023-06-27 | 16.15 | 16.55 | 15.95 | 16.20 | 16.14774 | 609322 |
| ## | 205 | 2023-06-28 | 16.20 | 16.20 | 16.20 | 16.20 | 16.14774 | 0 |
| ## | 206 | 2023-06-30 | 16.50 | 16.60 | 16.20 | 16.30 | 16.24742 | 3535745 |
| ## | 207 | 2023-07-03 | 16.45 | 16.75 | 16.40 | 16.55 | 16.49661 | 2346205 |
| ## | 208 | 2023-07-04 | 16.65 | 16.70 | 16.45 | 16.55 | 16.49661 | 1840271 |
| ## | 209 | 2023-07-05 | 16.50 | 16.60 | 16.45 | 16.50 | 16.44677 | 1267288 |
| ## | 210 | 2023-07-06 | 16.55 | 16.60 | 16.35 | 16.45 | 16.39694 | 2170727 |
| ## | 211 | 2023-07-07 | 16.45 | 16.55 | 16.30 | 16.50 | 16.44677 | 1755424 |
| ## | 212 | 2023-07-10 | 16.55 | 16.55 | 16.15 | 16.20 | 16.14774 | 2541558 |
| ## | 213 | 2023-07-11 | 16.25 | 16.45 | 16.15 | 16.25 | 16.19758 | 2425921 |
| ## | 214 | 2023-07-12 | 16.25 | 17.25 | 16.20 | 16.65 | 16.59629 | 7825545 |
| ## | 215 | 2023-07-13 | 16.75 | 16.80 | 16.15 | 16.25 | 16.19758 | 1989086 |
| ## | 216 | 2023-07-14 | 16.25 | 16.85 | 16.25 | 16.70 | 16.64613 | 3388659 |
| ## | 217 | 2023-07-17 | 17.30 | 17.45 | 16.30 | 16.35 | 16.29726 | 7296851 |
| ## | 218 | 2023-07-18 | 16.45 | 16.50 | 16.10 | 16.15 | 16.09790 | 2908173 |
| ## | 219 | 2023-07-19 | 16.20 | 16.30 | 16.05 | 16.10 | 16.04807 | 2236372 |
| ## | 220 | 2023-07-20 | 16.15 | 16.25 | 15.90 | 16.00 | 15.94839 | 3356652 |
| ## | 221 | 2023-07-21 | 16.00 | 16.10 | 15.80 | 15.85 | 15.79887 | 2526683 |
| ## | 222 | 2023-07-24 | 15.95 | 15.95 | 15.60 | 15.65 | 15.59952 | 4674426 |
| ## | 223 | 2023-07-25 | 15.70 | 16.25 | 15.65 | 15.85 | 15.79887 | 6946871 |
| ## | 224 | 2023-07-26 | 16.00 | 16.10 | 15.80 | 15.85 | 15.79887 | 1862538 |
| ## | 225 | 2023-07-27 | 15.95 | 15.95 | 15.70 | 15.75 | 15.69919 | 2252092 |
| ## | 226 | 2023-07-28 | 15.75 | 15.90 | 15.65 | 15.70 | 15.64935 | 1912461 |
| ## | 227 | 2023-07-31 | 15.85 | 15.85 | 15.70 | 15.75 | 15.69919 | 1385608 |
| ## | 228 | 2023-08-01 | 15.75 | 16.10 | 15.50 | 15.75 | 15.69919 | 2716063 |
| ## | 229 | 2023-08-02 | 15.80 | 15.90 | 15.20 | 15.40 | 15.35032 | 3191613 |
| ## | 230 | 2023-08-03 | 15.60 | 15.65 | 15.20 | 15.45 | 15.40016 | 2474415 |
| ## | 231 | 2023-08-04 | 15.50 | 15.55 | 15.15 | 15.20 | 15.15097 | 4747512 |
| ## | 232 | 2023-08-07 | 15.30 | 15.30 | 14.90 | 14.95 | 14.90177 | 2253022 |
| ## | 233 | 2023-08-08 | 15.10 | 15.10 | 14.55 | 14.65 | 14.60274 | 3710558 |
| ## | 234 | 2023-08-09 | 14.80 | 16.50 | 14.75 | 16.15 | 16.09790 | 41067440 |
| ## | 235 | 2023-08-10 | 16.60 | 17.70 | 16.55 | 17.20 | 17.14452 | 92001184 |
| ## | 236 | 2023-08-11 | 17.55 | 18.00 | 17.00 | 17.45 | 17.39371 | 36262599 |
| ## | 237 | 2023-08-14 | 17.45 | 17.45 | 15.95 | 16.40 | 16.34710 | 23901524 |
| ## | 238 | 2023-08-16 | 16.60 | 17.15 | 16.15 | 16.50 | 16.44677 | 20435854 |
| ## | 239 | 2023-08-17 | 16.75 | 16.80 | 15.95 | 16.20 | 16.14774 | 13487762 |
| ## | 240 | 2023-08-18 | 16.25 | 16.55 | 15.90 | 16.15 | 16.09790 | 19187185 |
| ## | 241 | 2023-08-21 | 16.35 | 16.40 | 15.30 | 15.75 | 15.69919 | 12488069 |
| ## | 242 | 2023-08-22 | 15.85 | 16.00 | 15.65 | 15.80 | 15.74903 | 10298225 |
| ## | 243 | 2023-08-23 | 15.95 | 16.40 | 15.75 | 15.90 | 15.84871 | 13614200 |
| ## | 244 | 2023-08-24 | 16.00 | 16.05 | 15.75 | 15.80 | 15.74903 | 4989545 |

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|----|-----|------------|-------|-------|-------|-------|----------|----------|
| ## | 245 | 2023-08-25 | 15.75 | 15.90 | 15.60 | 15.70 | 15.64935 | 6510342 |
| ## | 246 | 2023-08-28 | 15.70 | 15.80 | 15.45 | 15.50 | 15.45000 | 6213875 |
| ## | 247 | 2023-08-29 | 15.55 | 15.65 | 15.40 | 15.45 | 15.40016 | 5015019 |
| ## | 248 | 2023-08-30 | 15.45 | 15.95 | 15.45 | 15.70 | 15.64935 | 9490301 |
| ## | 249 | 2023-08-31 | 15.95 | 16.00 | 15.45 | 15.50 | 15.45000 | 6442416 |
| ## | 250 | 2023-09-01 | 15.60 | 15.80 | 15.45 | 15.55 | 15.55000 | 5109451 |
| ## | 251 | 2023-09-04 | 15.65 | 16.10 | 15.60 | 15.85 | 15.85000 | 8607142 |
| ## | 252 | 2023-09-05 | 15.95 | 16.60 | 15.90 | 16.05 | 16.05000 | 14643389 |
| ## | 253 | 2023-09-06 | 16.15 | 16.65 | 15.95 | 16.10 | 16.10000 | 9870337 |
| ## | 254 | 2023-09-07 | 16.20 | 16.65 | 16.15 | 16.45 | 16.45000 | 12674414 |
| ## | 255 | 2023-09-08 | 16.65 | 17.20 | 16.30 | 16.45 | 16.45000 | 19669280 |
| ## | 256 | 2023-09-11 | 16.90 | 18.65 | 16.85 | 17.95 | 17.95000 | 62336468 |
| ## | 257 | 2023-09-12 | 18.20 | 18.25 | 16.60 | 16.80 | 16.80000 | 23182939 |
| ## | 258 | 2023-09-13 | 17.00 | 17.35 | 16.50 | 17.05 | 17.05000 | 12900775 |
| ## | 259 | 2023-09-14 | 17.15 | 18.50 | 17.15 | 17.75 | 17.75000 | 40998398 |
| ## | 260 | 2023-09-15 | 17.90 | 18.15 | 17.25 | 17.65 | 17.65000 | 24217829 |
| ## | 261 | 2023-09-18 | 17.65 | 17.85 | 17.15 | 17.35 | 17.35000 | 9724027 |
| ## | 262 | 2023-09-20 | 17.25 | 17.35 | 16.95 | 17.00 | 17.00000 | 9124003 |
| ## | 263 | 2023-09-21 | 17.00 | 17.40 | 16.80 | 16.85 | 16.85000 | 6245927 |
| ## | 264 | 2023-09-22 | 16.90 | 17.05 | 16.45 | 16.75 | 16.75000 | 7642897 |
| ## | 265 | 2023-09-25 | 16.85 | 17.05 | 16.60 | 16.70 | 16.70000 | 4847806 |
| ## | 266 | 2023-09-26 | 16.75 | 17.20 | 16.70 | 17.00 | 17.00000 | 7937690 |
| ## | 267 | 2023-09-27 | 17.05 | 17.50 | 16.75 | 17.25 | 17.25000 | 12760670 |
| ## | 268 | 2023-09-28 | 17.35 | 17.45 | 17.00 | 17.15 | 17.15000 | 7608390 |
| ## | 269 | 2023-09-29 | 17.15 | 17.55 | 17.00 | 17.45 | 17.45000 | 6813682 |

Petronet

| ## | | Date | Open | High | Low | Close | Adj.Close | Volume |
|----|----|------------|--------|--------|--------|--------|-----------|---------|
| ## | 1 | 2022-09-01 | 213.60 | 222.00 | 213.60 | 219.60 | 209.5104 | 1922483 |
| ## | 2 | 2022-09-02 | 220.00 | 221.50 | 216.00 | 216.50 | 206.5528 | 696288 |
| ## | 3 | 2022-09-05 | 216.60 | 219.80 | 213.70 | 215.95 | 206.0280 | 1076298 |
| ## | 4 | 2022-09-06 | 217.00 | 217.90 | 214.80 | 216.10 | 206.1712 | 1419440 |
| ## | 5 | 2022-09-07 | 215.90 | 219.70 | 215.15 | 218.60 | 208.5563 | 555572 |
| ## | 6 | 2022-09-08 | 219.70 | 220.55 | 216.70 | 218.25 | 208.2224 | 772050 |
| ## | 7 | 2022-09-09 | 219.90 | 220.00 | 217.40 | 217.85 | 207.8408 | 979452 |
| ## | 8 | 2022-09-12 | 218.00 | 219.25 | 217.05 | 218.75 | 208.6994 | 493375 |
| ## | 9 | 2022-09-13 | 219.35 | 219.95 | 217.65 | 218.25 | 208.2224 | 887709 |
| ## | 10 | 2022-09-14 | 216.00 | 217.90 | 215.05 | 215.30 | 205.4079 | 865479 |
| ## | 11 | 2022-09-15 | 216.00 | 219.60 | 214.55 | 215.50 | 205.5987 | 1917639 |
| ## | 12 | 2022-09-16 | 215.55 | 216.85 | 209.10 | 210.05 | 200.3991 | 2927024 |
| ## | 13 | 2022-09-19 | 210.10 | 210.95 | 207.50 | 208.40 | 198.8249 | 814552 |
| ## | 14 | 2022-09-20 | 209.45 | 212.30 | 208.80 | 211.10 | 201.4009 | 1196356 |
| ## | 15 | 2022-09-21 | 209.25 | 210.40 | 206.80 | 207.90 | 198.3479 | 1521682 |
| ## | 16 | 2022-09-22 | 206.05 | 209.50 | 206.05 | 207.70 | 198.1571 | 1179159 |
| ## | 17 | 2022-09-23 | 207.70 | 208.70 | 205.00 | 205.50 | 196.0582 | 1115615 |
| ## | 18 | 2022-09-26 | 204.05 | 205.35 | 198.65 | 201.45 | 192.1943 | 1383868 |
| ## | 19 | 2022-09-27 | 202.50 | 204.65 | 199.65 | 200.55 | 191.3356 | 1315234 |
| ## | 20 | 2022-09-28 | 200.25 | 204.00 | 197.65 | 199.40 | 190.2384 | 1237216 |
| ## | 21 | 2022-09-29 | 200.10 | 201.55 | 197.05 | 199.95 | 190.7632 | 1761700 |

| | | | | | | | | |
|----|----|------------|--------|--------|--------|--------|----------|---------|
| ## | 22 | 2022-09-30 | 199.50 | 200.90 | 197.60 | 199.90 | 190.7155 | 1903996 |
| ## | 23 | 2022-10-03 | 200.90 | 203.30 | 198.00 | 198.65 | 189.5229 | 1716312 |
| ## | 24 | 2022-10-04 | 203.00 | 203.85 | 198.70 | 203.35 | 194.0070 | 2299740 |
| ## | 25 | 2022-10-06 | 207.35 | 207.75 | 201.65 | 204.30 | 194.9133 | 2842769 |
| ## | 26 | 2022-10-07 | 204.50 | 206.95 | 202.25 | 205.75 | 196.2967 | 1553411 |
| ## | 27 | 2022-10-10 | 201.65 | 204.70 | 201.25 | 202.75 | 193.4345 | 1056877 |
| ## | 28 | 2022-10-11 | 203.75 | 203.75 | 198.20 | 198.75 | 189.6183 | 1409035 |
| ## | 29 | 2022-10-12 | 199.50 | 199.95 | 198.10 | 199.50 | 190.3338 | 840713 |
| ## | 30 | 2022-10-13 | 199.50 | 200.50 | 195.70 | 197.40 | 188.3303 | 1517988 |
| ## | 31 | 2022-10-14 | 199.00 | 204.25 | 198.45 | 201.00 | 191.7649 | 1843181 |
| ## | 32 | 2022-10-17 | 200.75 | 202.00 | 199.30 | 200.95 | 191.7172 | 860178 |
| ## | 33 | 2022-10-18 | 201.90 | 202.40 | 199.70 | 201.45 | 192.1943 | 1141295 |
| ## | 34 | 2022-10-19 | 201.70 | 203.55 | 200.65 | 201.85 | 192.5759 | 909085 |
| ## | 35 | 2022-10-20 | 201.00 | 203.10 | 200.75 | 202.60 | 193.2914 | 1053726 |
| ## | 36 | 2022-10-21 | 203.00 | 205.00 | 201.00 | 202.50 | 193.1960 | 1093647 |
| ## | 37 | 2022-10-24 | 204.15 | 204.15 | 202.15 | 202.65 | 193.3391 | 90550 |
| ## | 38 | 2022-10-25 | 202.40 | 204.05 | 199.55 | 202.60 | 193.2914 | 3225606 |
| ## | 39 | 2022-10-27 | 204.00 | 204.75 | 201.85 | 202.35 | 193.0529 | 2477376 |
| ## | 40 | 2022-10-28 | 203.40 | 210.55 | 203.20 | 208.95 | 199.3497 | 5531261 |
| ## | 41 | 2022-10-31 | 208.95 | 209.00 | 203.80 | 205.55 | 196.1059 | 2454128 |
| ## | 42 | 2022-11-01 | 206.60 | 211.05 | 206.30 | 210.60 | 200.9239 | 2167305 |
| ## | 43 | 2022-11-02 | 211.00 | 212.00 | 208.15 | 211.35 | 201.6394 | 1711390 |
| ## | 44 | 2022-11-03 | 210.05 | 210.50 | 208.35 | 209.15 | 199.5405 | 977853 |
| ## | 45 | 2022-11-04 | 209.15 | 211.20 | 208.80 | 210.70 | 201.0193 | 807437 |
| ## | 46 | 2022-11-07 | 210.70 | 213.80 | 210.50 | 212.55 | 202.7843 | 1563880 |
| ## | 47 | 2022-11-09 | 210.60 | 214.70 | 207.00 | 209.35 | 199.7313 | 1448129 |
| ## | 48 | 2022-11-10 | 210.80 | 218.80 | 210.45 | 212.60 | 202.8320 | 5636686 |
| ## | 49 | 2022-11-11 | 213.70 | 214.80 | 211.00 | 212.20 | 202.4503 | 1445726 |
| ## | 50 | 2022-11-14 | 212.60 | 214.60 | 212.10 | 214.15 | 204.3107 | 859071 |
| ## | 51 | 2022-11-15 | 214.70 | 214.70 | 212.50 | 213.90 | 204.0722 | 725740 |
| ## | 52 | 2022-11-16 | 214.90 | 215.75 | 212.25 | 213.65 | 203.8337 | 1277106 |
| ## | 53 | 2022-11-17 | 212.60 | 215.60 | 212.60 | 214.65 | 204.7878 | 890883 |
| ## | 54 | 2022-11-18 | 214.75 | 215.40 | 211.00 | 212.25 | 202.4980 | 1644363 |
| ## | 55 | 2022-11-21 | 206.55 | 208.75 | 205.05 | 208.30 | 205.5072 | 1293895 |
| ## | 56 | 2022-11-22 | 208.50 | 208.65 | 205.55 | 206.30 | 203.5340 | 988569 |
| ## | 57 | 2022-11-23 | 207.00 | 208.60 | 205.55 | 208.10 | 205.3098 | 615536 |
| ## | 58 | 2022-11-24 | 208.90 | 209.50 | 206.20 | 207.10 | 204.3232 | 768999 |
| ## | 59 | 2022-11-25 | 207.90 | 209.70 | 206.20 | 209.00 | 206.1978 | 1486704 |
| ## | 60 | 2022-11-28 | 210.00 | 213.05 | 210.00 | 211.10 | 208.2696 | 1387480 |
| ## | 61 | 2022-11-29 | 211.10 | 213.00 | 210.70 | 211.85 | 209.0096 | 591659 |
| ## | 62 | 2022-11-30 | 211.85 | 214.35 | 211.45 | 212.65 | 209.7988 | 2502692 |
| ## | 63 | 2022-12-01 | 213.50 | 214.10 | 210.55 | 210.90 | 208.0723 | 1823793 |
| ## | 64 | 2022-12-02 | 210.85 | 213.85 | 210.20 | 212.00 | 209.1575 | 4216968 |
| ## | 65 | 2022-12-05 | 213.30 | 213.50 | 211.55 | 213.15 | 210.2921 | 1308234 |
| ## | 66 | 2022-12-06 | 213.15 | 215.90 | 212.00 | 214.75 | 211.8707 | 3294411 |
| ## | 67 | 2022-12-07 | 216.20 | 220.00 | 215.00 | 215.20 | 212.3146 | 5145444 |
| ## | 68 | 2022-12-08 | 215.95 | 218.35 | 215.05 | 216.30 | 213.3999 | 1780164 |
| ## | 69 | 2022-12-09 | 218.15 | 218.15 | 212.25 | 213.75 | 210.8841 | 1170160 |
| ## | 70 | 2022-12-12 | 214.50 | 215.05 | 211.50 | 214.35 | 211.4760 | 1928152 |
| ## | 71 | 2022-12-13 | 215.25 | 215.55 | 213.10 | 214.50 | 211.6240 | 1428476 |

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|--------|------------|--------|--------|--------|--------|----------|---------|
| ## 72 | 2022-12-14 | 215.00 | 216.50 | 214.50 | 215.85 | 212.9559 | 771083 |
| ## 73 | 2022-12-15 | 215.85 | 217.85 | 213.55 | 214.25 | 211.3774 | 1769788 |
| ## 74 | 2022-12-16 | 214.00 | 215.70 | 210.55 | 211.10 | 208.2696 | 2119661 |
| ## 75 | 2022-12-19 | 211.45 | 213.70 | 211.45 | 213.10 | 210.2428 | 1112675 |
| ## 76 | 2022-12-20 | 212.95 | 214.45 | 210.90 | 213.05 | 210.1935 | 828450 |
| ## 77 | 2022-12-21 | 213.40 | 214.25 | 210.80 | 211.55 | 208.7136 | 1015144 |
| ## 78 | 2022-12-22 | 211.55 | 213.40 | 210.65 | 212.50 | 209.6508 | 1566260 |
| ## 79 | 2022-12-23 | 211.60 | 212.60 | 207.30 | 207.95 | 205.1618 | 2056408 |
| ## 80 | 2022-12-26 | 207.00 | 210.30 | 206.15 | 209.85 | 207.0364 | 599695 |
| ## 81 | 2022-12-27 | 209.85 | 212.05 | 209.45 | 211.90 | 209.0589 | 824369 |
| ## 82 | 2022-12-28 | 211.45 | 213.90 | 210.45 | 212.55 | 209.7002 | 1834446 |
| ## 83 | 2022-12-29 | 211.55 | 215.20 | 210.25 | 214.50 | 211.6240 | 2878465 |
| ## 84 | 2022-12-30 | 215.00 | 218.65 | 214.45 | 215.45 | 212.5613 | 3070732 |
| ## 85 | 2023-01-02 | 214.95 | 217.10 | 212.75 | 216.60 | 213.6959 | 1633559 |
| ## 86 | 2023-01-03 | 216.60 | 217.20 | 214.65 | 216.10 | 213.2026 | 1173568 |
| ## 87 | 2023-01-04 | 216.90 | 219.80 | 214.25 | 216.55 | 213.6465 | 3685593 |
| ## 88 | 2023-01-05 | 217.80 | 221.00 | 215.60 | 220.50 | 217.5436 | 3054569 |
| ## 89 | 2023-01-06 | 221.00 | 221.75 | 216.40 | 217.90 | 214.9784 | 1592524 |
| ## 90 | 2023-01-09 | 219.75 | 220.25 | 217.05 | 219.30 | 216.3597 | 789323 |
| ## 91 | 2023-01-10 | 219.30 | 221.35 | 217.80 | 219.85 | 216.9023 | 1077675 |
| ## 92 | 2023-01-11 | 220.70 | 223.50 | 219.50 | 220.50 | 217.5436 | 1604601 |
| ## 93 | 2023-01-12 | 221.80 | 221.80 | 216.85 | 218.90 | 215.9650 | 1865692 |
| ## 94 | 2023-01-13 | 221.00 | 222.40 | 219.00 | 221.05 | 218.0862 | 1576515 |
| ## 95 | 2023-01-16 | 222.00 | 222.50 | 218.00 | 219.20 | 216.2610 | 994409 |
| ## 96 | 2023-01-17 | 219.20 | 220.85 | 217.55 | 219.70 | 216.7543 | 938064 |
| ## 97 | 2023-01-18 | 219.95 | 222.40 | 219.80 | 222.00 | 219.0235 | 1270865 |
| ## 98 | 2023-01-19 | 221.90 | 224.35 | 220.60 | 222.95 | 219.9607 | 1707061 |
| ## 99 | 2023-01-20 | 223.40 | 225.00 | 222.05 | 222.95 | 219.9607 | 1581886 |
| ## 100 | 2023-01-23 | 223.95 | 227.20 | 219.75 | 226.60 | 223.5618 | 3390465 |
| ## 101 | 2023-01-24 | 227.90 | 230.95 | 227.50 | 230.05 | 226.9655 | 3315569 |
| ## 102 | 2023-01-25 | 230.00 | 230.75 | 223.85 | 225.25 | 222.2299 | 1176777 |
| ## 103 | 2023-01-27 | 226.55 | 228.25 | 222.20 | 225.55 | 222.5259 | 2105185 |
| ## 104 | 2023-01-30 | 226.95 | 226.95 | 218.05 | 219.50 | 216.5570 | 1966136 |
| ## 105 | 2023-01-31 | 219.95 | 221.35 | 216.80 | 217.25 | 214.3371 | 2395004 |
| ## 106 | 2023-02-01 | 218.55 | 219.75 | 214.10 | 216.40 | 213.4985 | 1285362 |
| ## 107 | 2023-02-02 | 215.10 | 215.70 | 210.10 | 210.95 | 208.1216 | 2026062 |
| ## 108 | 2023-02-03 | 212.10 | 212.40 | 207.00 | 209.05 | 206.2471 | 1905425 |
| ## 109 | 2023-02-06 | 209.05 | 212.95 | 207.40 | 212.55 | 209.7002 | 3000925 |
| ## 110 | 2023-02-07 | 213.95 | 220.00 | 212.70 | 218.75 | 215.8170 | 3962276 |
| ## 111 | 2023-02-08 | 219.80 | 225.40 | 219.40 | 224.85 | 221.8353 | 2885392 |
| ## 112 | 2023-02-09 | 225.45 | 226.20 | 221.70 | 223.65 | 220.6513 | 2418073 |
| ## 113 | 2023-02-10 | 222.45 | 224.60 | 221.05 | 222.30 | 219.3194 | 790630 |
| ## 114 | 2023-02-13 | 222.30 | 224.25 | 219.70 | 220.45 | 217.4942 | 870863 |
| ## 115 | 2023-02-14 | 219.50 | 222.35 | 217.10 | 221.55 | 218.5795 | 2458513 |
| ## 116 | 2023-02-15 | 221.40 | 222.70 | 218.70 | 221.80 | 218.8261 | 1185065 |
| ## 117 | 2023-02-16 | 222.10 | 223.85 | 218.70 | 219.75 | 216.8036 | 2381168 |
| ## 118 | 2023-02-17 | 219.50 | 221.00 | 217.75 | 218.60 | 215.6691 | 649974 |
| ## 119 | 2023-02-20 | 219.00 | 219.50 | 214.75 | 215.80 | 212.9066 | 1025116 |
| ## 120 | 2023-02-21 | 217.40 | 217.40 | 212.30 | 213.45 | 210.5881 | 1303394 |
| ## 121 | 2023-02-22 | 213.20 | 217.80 | 211.65 | 216.95 | 214.0412 | 1894173 |

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| ## | 122 | 2023-02-23 | 216.90 | 220.50 | 215.65 | 219.65 | 216.7050 | 1889544 |
| ## | 123 | 2023-02-24 | 220.10 | 222.00 | 218.80 | 221.70 | 218.7275 | 2114473 |
| ## | 124 | 2023-02-27 | 221.90 | 224.00 | 219.15 | 223.35 | 220.3554 | 1458035 |
| ## | 125 | 2023-02-28 | 223.35 | 224.60 | 220.15 | 222.55 | 219.5661 | 2820800 |
| ## | 126 | 2023-03-01 | 222.95 | 223.95 | 219.55 | 220.25 | 217.2969 | 2902429 |
| ## | 127 | 2023-03-02 | 219.95 | 223.00 | 219.70 | 221.90 | 218.9248 | 2886039 |
| ## | 128 | 2023-03-03 | 222.95 | 224.00 | 222.00 | 222.95 | 219.9607 | 2554858 |
| ## | 129 | 2023-03-06 | 223.00 | 225.50 | 221.45 | 224.45 | 221.4406 | 2459880 |
| ## | 130 | 2023-03-08 | 224.50 | 230.95 | 223.85 | 230.25 | 227.1628 | 3520030 |
| ## | 131 | 2023-03-09 | 231.05 | 235.05 | 230.05 | 230.70 | 227.6068 | 6982759 |
| ## | 132 | 2023-03-10 | 229.70 | 232.70 | 227.25 | 231.90 | 228.7907 | 1443206 |
| ## | 133 | 2023-03-13 | 231.90 | 233.90 | 225.05 | 225.55 | 222.5259 | 2551442 |
| ## | 134 | 2023-03-14 | 226.00 | 231.50 | 225.25 | 229.10 | 226.0283 | 4026600 |
| ## | 135 | 2023-03-15 | 231.00 | 237.75 | 230.60 | 236.70 | 233.5264 | 4373663 |
| ## | 136 | 2023-03-16 | 236.80 | 239.80 | 236.40 | 237.85 | 234.6610 | 4126157 |
| ## | 137 | 2023-03-17 | 238.00 | 238.75 | 231.05 | 232.55 | 229.4320 | 6723228 |
| ## | 138 | 2023-03-20 | 230.40 | 233.10 | 228.45 | 231.55 | 228.4454 | 2296671 |
| ## | 139 | 2023-03-21 | 232.00 | 236.40 | 230.05 | 234.65 | 231.5038 | 4339052 |
| ## | 140 | 2023-03-22 | 235.70 | 236.30 | 231.50 | 232.45 | 229.3333 | 1170300 |
| ## | 141 | 2023-03-23 | 232.45 | 233.00 | 228.30 | 229.30 | 226.2256 | 2164113 |
| ## | 142 | 2023-03-24 | 229.30 | 230.15 | 222.50 | 223.90 | 220.8980 | 1736636 |
| ## | 143 | 2023-03-27 | 224.00 | 227.70 | 222.00 | 222.85 | 219.8621 | 1918970 |
| ## | 144 | 2023-03-28 | 222.85 | 224.90 | 220.05 | 223.70 | 220.7007 | 1709779 |
| ## | 145 | 2023-03-29 | 224.00 | 226.10 | 223.00 | 224.55 | 221.5393 | 1759982 |
| ## | 146 | 2023-03-31 | 227.00 | 230.70 | 224.55 | 228.85 | 225.7816 | 2925256 |
| ## | 147 | 2023-04-03 | 229.95 | 234.30 | 229.10 | 233.80 | 230.6653 | 4265532 |
| ## | 148 | 2023-04-05 | 232.20 | 236.10 | 229.70 | 235.70 | 232.5398 | 3090789 |
| ## | 149 | 2023-04-06 | 236.00 | 236.95 | 232.90 | 235.80 | 232.6384 | 2062909 |
| ## | 150 | 2023-04-10 | 237.00 | 237.00 | 227.20 | 228.50 | 225.4363 | 4922368 |
| ## | 151 | 2023-04-11 | 228.50 | 233.60 | 228.00 | 233.20 | 230.0733 | 2482620 |
| ## | 152 | 2023-04-12 | 234.00 | 234.00 | 229.45 | 231.45 | 228.3468 | 3009476 |
| ## | 153 | 2023-04-13 | 233.60 | 233.80 | 227.05 | 227.60 | 224.5484 | 4644212 |
| ## | 154 | 2023-04-17 | 227.50 | 233.95 | 226.50 | 233.45 | 230.3199 | 2016721 |
| ## | 155 | 2023-04-18 | 233.55 | 235.25 | 232.15 | 234.35 | 231.2079 | 2201466 |
| ## | 156 | 2023-04-19 | 233.55 | 235.30 | 232.15 | 233.90 | 230.7639 | 1692146 |
| ## | 157 | 2023-04-20 | 234.00 | 234.50 | 231.95 | 232.95 | 229.8266 | 962842 |
| ## | 158 | 2023-04-21 | 234.00 | 235.50 | 232.70 | 233.70 | 230.5666 | 1567888 |
| ## | 159 | 2023-04-24 | 235.25 | 237.75 | 232.90 | 235.90 | 232.7371 | 2427262 |
| ## | 160 | 2023-04-25 | 235.90 | 238.80 | 235.00 | 236.90 | 233.7237 | 1868738 |
| ## | 161 | 2023-04-26 | 235.15 | 237.35 | 234.05 | 235.55 | 232.3918 | 1531840 |
| ## | 162 | 2023-04-27 | 235.60 | 237.95 | 235.00 | 235.90 | 232.7371 | 1539144 |
| ## | 163 | 2023-04-28 | 237.60 | 238.15 | 234.25 | 236.90 | 233.7237 | 4070505 |
| ## | 164 | 2023-05-02 | 237.70 | 239.45 | 236.30 | 237.00 | 233.8223 | 3560897 |
| ## | 165 | 2023-05-03 | 237.00 | 242.40 | 235.45 | 236.70 | 233.5264 | 3447131 |
| ## | 166 | 2023-05-04 | 230.00 | 230.65 | 224.20 | 226.80 | 223.7591 | 6728668 |
| ## | 167 | 2023-05-05 | 225.50 | 227.80 | 225.15 | 226.20 | 223.1671 | 4722518 |
| ## | 168 | 2023-05-08 | 226.00 | 226.00 | 221.60 | 223.90 | 220.8980 | 3028181 |
| ## | 169 | 2023-05-09 | 224.30 | 226.75 | 223.55 | 226.20 | 223.1671 | 2677850 |
| ## | 170 | 2023-05-10 | 226.95 | 230.15 | 226.00 | 228.20 | 225.1403 | 2577626 |
| ## | 171 | 2023-05-11 | 228.20 | 233.00 | 228.20 | 232.65 | 229.5307 | 1975639 |

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| ## | 172 | 2023-05-12 | 232.85 | 232.85 | 227.45 | 229.25 | 226.1763 | 1844641 |
| ## | 173 | 2023-05-15 | 229.25 | 230.40 | 227.70 | 229.55 | 226.4722 | 664038 |
| ## | 174 | 2023-05-16 | 229.65 | 232.30 | 228.25 | 229.45 | 226.3736 | 1148185 |
| ## | 175 | 2023-05-17 | 230.00 | 231.10 | 228.10 | 229.65 | 226.5709 | 874826 |
| ## | 176 | 2023-05-18 | 230.90 | 232.25 | 225.90 | 226.85 | 223.8084 | 1475714 |
| ## | 177 | 2023-05-19 | 226.85 | 227.40 | 224.00 | 224.45 | 221.4406 | 1349963 |
| ## | 178 | 2023-05-22 | 224.10 | 226.55 | 223.70 | 226.05 | 223.0192 | 855395 |
| ## | 179 | 2023-05-23 | 226.95 | 226.95 | 224.35 | 224.90 | 221.8846 | 1125927 |
| ## | 180 | 2023-05-24 | 225.00 | 226.10 | 224.40 | 225.15 | 222.1312 | 1198122 |
| ## | 181 | 2023-05-25 | 225.15 | 225.95 | 224.50 | 225.50 | 222.4765 | 1655067 |
| ## | 182 | 2023-05-26 | 225.30 | 225.60 | 223.70 | 224.90 | 221.8846 | 871344 |
| ## | 183 | 2023-05-29 | 225.50 | 225.50 | 223.20 | 223.70 | 220.7007 | 622678 |
| ## | 184 | 2023-05-30 | 223.70 | 225.40 | 223.50 | 224.30 | 221.2926 | 878194 |
| ## | 185 | 2023-05-31 | 223.80 | 228.70 | 222.15 | 225.85 | 222.8219 | 6984817 |
| ## | 186 | 2023-06-01 | 226.40 | 226.45 | 222.70 | 223.25 | 220.2567 | 988792 |
| ## | 187 | 2023-06-02 | 223.25 | 224.35 | 222.15 | 222.70 | 219.7141 | 941008 |
| ## | 188 | 2023-06-05 | 223.00 | 224.60 | 222.05 | 224.05 | 221.0460 | 1672398 |
| ## | 189 | 2023-06-06 | 224.05 | 225.00 | 222.85 | 223.45 | 220.4540 | 1168437 |
| ## | 190 | 2023-06-07 | 224.00 | 224.45 | 223.00 | 223.45 | 220.4540 | 2099481 |
| ## | 191 | 2023-06-08 | 224.10 | 225.60 | 222.35 | 222.70 | 219.7141 | 1973569 |
| ## | 192 | 2023-06-09 | 222.70 | 223.10 | 221.05 | 222.80 | 219.8127 | 1457734 |
| ## | 193 | 2023-06-12 | 223.50 | 225.10 | 221.80 | 224.10 | 221.0953 | 2066522 |
| ## | 194 | 2023-06-13 | 224.25 | 224.85 | 222.95 | 223.25 | 220.2567 | 1657978 |
| ## | 195 | 2023-06-14 | 223.25 | 231.00 | 222.75 | 230.05 | 226.9655 | 3227498 |
| ## | 196 | 2023-06-15 | 231.00 | 231.00 | 226.25 | 227.75 | 224.6964 | 2070529 |
| ## | 197 | 2023-06-16 | 228.00 | 228.35 | 225.55 | 226.10 | 223.0685 | 2978816 |
| ## | 198 | 2023-06-19 | 227.35 | 227.35 | 225.10 | 226.00 | 222.9698 | 1010996 |
| ## | 199 | 2023-06-20 | 225.15 | 226.10 | 222.80 | 224.05 | 221.0460 | 1882038 |
| ## | 200 | 2023-06-21 | 224.45 | 226.50 | 224.00 | 225.90 | 222.8712 | 985611 |
| ## | 201 | 2023-06-22 | 226.00 | 226.50 | 222.10 | 222.85 | 219.8621 | 1625405 |
| ## | 202 | 2023-06-23 | 222.85 | 223.00 | 218.50 | 218.80 | 215.8664 | 1206748 |
| ## | 203 | 2023-06-26 | 218.80 | 220.90 | 216.65 | 220.35 | 217.3956 | 1083389 |
| ## | 204 | 2023-06-27 | 220.35 | 221.10 | 219.10 | 220.10 | 217.1489 | 1043449 |
| ## | 205 | 2023-06-28 | 220.10 | 220.10 | 220.10 | 220.10 | 217.1489 | 0 |
| ## | 206 | 2023-06-30 | 220.35 | 223.05 | 220.00 | 222.70 | 219.7141 | 1469093 |
| ## | 207 | 2023-07-03 | 223.50 | 225.45 | 222.55 | 223.35 | 220.3554 | 1460718 |
| ## | 208 | 2023-07-04 | 223.95 | 224.95 | 223.10 | 224.10 | 221.0953 | 459277 |
| ## | 209 | 2023-07-05 | 224.90 | 227.00 | 223.65 | 226.10 | 223.0685 | 1572523 |
| ## | 210 | 2023-07-06 | 225.25 | 228.80 | 225.25 | 228.40 | 225.3376 | 967651 |
| ## | 211 | 2023-07-07 | 228.35 | 231.45 | 227.15 | 229.80 | 226.7189 | 2077311 |
| ## | 212 | 2023-07-10 | 230.45 | 231.15 | 227.75 | 228.55 | 225.4856 | 1474766 |
| ## | 213 | 2023-07-11 | 229.20 | 233.20 | 229.20 | 230.30 | 227.2122 | 1788722 |
| ## | 214 | 2023-07-12 | 230.25 | 231.90 | 228.50 | 229.60 | 226.5216 | 1338596 |
| ## | 215 | 2023-07-13 | 230.90 | 231.25 | 223.90 | 224.50 | 221.4899 | 2158135 |
| ## | 216 | 2023-07-14 | 225.70 | 230.90 | 224.55 | 229.55 | 226.4722 | 1373650 |
| ## | 217 | 2023-07-17 | 230.75 | 230.75 | 227.35 | 228.05 | 224.9924 | 651894 |
| ## | 218 | 2023-07-18 | 228.05 | 228.65 | 223.85 | 224.20 | 221.1940 | 1694667 |
| ## | 219 | 2023-07-19 | 224.95 | 225.90 | 223.65 | 224.85 | 221.8353 | 925552 |
| ## | 220 | 2023-07-20 | 225.60 | 225.65 | 223.85 | 224.55 | 221.5393 | 1528466 |
| ## | 221 | 2023-07-21 | 222.85 | 225.65 | 222.85 | 223.55 | 220.5527 | 1037570 |

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| ## | 222 | 2023-07-24 | 224.60 | 224.60 | 222.60 | 223.85 | 220.8487 | 4307489 |
| ## | 223 | 2023-07-25 | 224.30 | 226.10 | 224.00 | 225.70 | 222.6738 | 943106 |
| ## | 224 | 2023-07-26 | 225.50 | 227.45 | 224.60 | 224.95 | 221.9339 | 1840385 |
| ## | 225 | 2023-07-27 | 225.90 | 225.90 | 224.15 | 225.00 | 221.9832 | 3017672 |
| ## | 226 | 2023-07-28 | 225.70 | 230.10 | 223.30 | 229.20 | 226.1269 | 7031824 |
| ## | 227 | 2023-07-31 | 230.00 | 234.75 | 228.50 | 233.55 | 230.4186 | 3558719 |
| ## | 228 | 2023-08-01 | 236.85 | 237.00 | 232.05 | 233.55 | 230.4186 | 4373224 |
| ## | 229 | 2023-08-02 | 232.85 | 232.95 | 224.25 | 225.40 | 222.3779 | 2626562 |
| ## | 230 | 2023-08-03 | 225.40 | 226.50 | 223.75 | 224.60 | 221.5886 | 1375131 |
| ## | 231 | 2023-08-04 | 225.80 | 226.40 | 223.75 | 224.10 | 221.0953 | 2188122 |
| ## | 232 | 2023-08-07 | 224.25 | 227.00 | 224.15 | 226.50 | 223.4631 | 1164287 |
| ## | 233 | 2023-08-08 | 227.00 | 228.75 | 224.60 | 225.35 | 222.3286 | 1777172 |
| ## | 234 | 2023-08-09 | 225.05 | 233.75 | 224.70 | 231.55 | 228.4454 | 6378139 |
| ## | 235 | 2023-08-10 | 231.80 | 231.80 | 225.65 | 226.45 | 223.4138 | 3377686 |
| ## | 236 | 2023-08-11 | 226.70 | 227.30 | 225.15 | 225.50 | 222.4765 | 981640 |
| ## | 237 | 2023-08-14 | 225.50 | 225.50 | 222.50 | 224.05 | 221.0460 | 1028024 |
| ## | 238 | 2023-08-16 | 225.00 | 225.50 | 221.50 | 225.10 | 222.0819 | 1628114 |
| ## | 239 | 2023-08-17 | 225.00 | 225.20 | 223.05 | 223.75 | 220.7500 | 1638821 |
| ## | 240 | 2023-08-18 | 220.10 | 222.80 | 218.55 | 219.25 | 219.2500 | 1856127 |
| ## | 241 | 2023-08-21 | 219.20 | 222.15 | 218.80 | 221.65 | 221.6500 | 1109009 |
| ## | 242 | 2023-08-22 | 221.65 | 222.00 | 220.45 | 220.95 | 220.9500 | 780003 |
| ## | 243 | 2023-08-23 | 221.35 | 222.75 | 220.60 | 221.05 | 221.0500 | 702136 |
| ## | 244 | 2023-08-24 | 221.55 | 222.15 | 220.50 | 220.75 | 220.7500 | 459567 |
| ## | 245 | 2023-08-25 | 220.75 | 221.30 | 218.50 | 219.00 | 219.0000 | 678463 |
| ## | 246 | 2023-08-28 | 219.05 | 219.90 | 217.85 | 218.10 | 218.1000 | 1364231 |
| ## | 247 | 2023-08-29 | 218.60 | 220.60 | 218.20 | 219.95 | 219.9500 | 662137 |
| ## | 248 | 2023-08-30 | 220.50 | 220.60 | 218.00 | 218.35 | 218.3500 | 1341451 |
| ## | 249 | 2023-08-31 | 218.50 | 219.05 | 215.00 | 215.30 | 215.3000 | 3110680 |
| ## | 250 | 2023-09-01 | 216.00 | 219.90 | 214.70 | 219.55 | 219.5500 | 4266629 |
| ## | 251 | 2023-09-04 | 220.10 | 221.35 | 218.05 | 219.00 | 219.0000 | 3082382 |
| ## | 252 | 2023-09-05 | 219.50 | 229.80 | 219.50 | 229.15 | 229.1500 | 7264631 |
| ## | 253 | 2023-09-06 | 228.95 | 246.40 | 228.65 | 244.90 | 244.9000 | 18548210 |
| ## | 254 | 2023-09-07 | 247.00 | 248.45 | 240.35 | 246.50 | 246.5000 | 8324350 |
| ## | 255 | 2023-09-08 | 246.00 | 253.95 | 245.95 | 250.20 | 250.2000 | 5426714 |
| ## | 256 | 2023-09-11 | 251.95 | 254.40 | 247.30 | 249.10 | 249.1000 | 2210804 |
| ## | 257 | 2023-09-12 | 250.40 | 250.85 | 233.90 | 234.70 | 234.7000 | 4382796 |
| ## | 258 | 2023-09-13 | 235.50 | 238.65 | 233.10 | 236.30 | 236.3000 | 1995236 |
| ## | 259 | 2023-09-14 | 236.35 | 244.50 | 236.35 | 244.00 | 244.0000 | 2887182 |
| ## | 260 | 2023-09-15 | 245.65 | 246.20 | 240.35 | 241.00 | 241.0000 | 4141983 |
| ## | 261 | 2023-09-18 | 241.00 | 241.00 | 235.75 | 238.30 | 238.3000 | 1756179 |
| ## | 262 | 2023-09-20 | 236.90 | 240.95 | 233.65 | 239.60 | 239.6000 | 3509711 |
| ## | 263 | 2023-09-21 | 239.30 | 239.95 | 234.25 | 237.85 | 237.8500 | 3466030 |
| ## | 264 | 2023-09-22 | 237.95 | 242.85 | 237.65 | 240.25 | 240.2500 | 1975015 |
| ## | 265 | 2023-09-25 | 240.25 | 240.80 | 236.40 | 239.40 | 239.4000 | 1306855 |
| ## | 266 | 2023-09-26 | 239.35 | 242.20 | 239.00 | 240.25 | 240.2500 | 1266590 |
| ## | 267 | 2023-09-27 | 240.40 | 241.00 | 237.25 | 238.50 | 238.5000 | 1511381 |
| ## | 268 | 2023-09-28 | 238.50 | 240.90 | 234.20 | 235.35 | 235.3500 | 1717282 |
| ## | 269 | 2023-09-29 | 236.05 | 242.35 | 236.05 | 239.95 | 239.9500 | 1975952 |

reliance

| ## | | Date | Open | High | Low | Close | Adj.Close | Volume |
|-------|--|------------|---------|---------|---------|---------|-----------|---------|
| ## 1 | | 2022-09-01 | 2582.65 | 2604.95 | 2550.70 | 2560.40 | 2551.387 | 9188434 |
| ## 2 | | 2022-09-02 | 2560.40 | 2575.35 | 2525.70 | 2530.50 | 2521.593 | 5999196 |
| ## 3 | | 2022-09-05 | 2531.00 | 2581.50 | 2531.00 | 2569.80 | 2560.754 | 5227785 |
| ## 4 | | 2022-09-06 | 2573.00 | 2606.00 | 2572.00 | 2596.85 | 2587.709 | 5030172 |
| ## 5 | | 2022-09-07 | 2575.00 | 2594.90 | 2570.00 | 2581.75 | 2572.662 | 3455942 |
| ## 6 | | 2022-09-08 | 2588.25 | 2598.00 | 2571.00 | 2585.40 | 2576.299 | 3256840 |
| ## 7 | | 2022-09-09 | 2610.00 | 2610.00 | 2564.00 | 2569.30 | 2560.256 | 3837302 |
| ## 8 | | 2022-09-12 | 2570.55 | 2612.00 | 2570.55 | 2598.05 | 2588.905 | 3431445 |
| ## 9 | | 2022-09-13 | 2618.00 | 2629.70 | 2601.00 | 2619.75 | 2610.529 | 4102114 |
| ## 10 | | 2022-09-14 | 2575.00 | 2610.00 | 2572.75 | 2588.35 | 2579.239 | 4004997 |
| ## 11 | | 2022-09-15 | 2583.00 | 2603.55 | 2556.75 | 2562.70 | 2553.679 | 4783723 |
| ## 12 | | 2022-09-16 | 2543.75 | 2553.00 | 2491.00 | 2499.20 | 2490.403 | 9330469 |
| ## 13 | | 2022-09-19 | 2499.20 | 2522.70 | 2481.35 | 2502.45 | 2493.641 | 3498286 |
| ## 14 | | 2022-09-20 | 2522.45 | 2537.70 | 2494.70 | 2502.85 | 2494.040 | 3881882 |
| ## 15 | | 2022-09-21 | 2496.75 | 2533.00 | 2495.00 | 2509.75 | 2500.916 | 4249172 |
| ## 16 | | 2022-09-22 | 2486.00 | 2503.00 | 2472.10 | 2486.10 | 2477.349 | 4757219 |
| ## 17 | | 2022-09-23 | 2485.00 | 2495.95 | 2436.10 | 2439.50 | 2430.913 | 4397194 |
| ## 18 | | 2022-09-26 | 2394.05 | 2417.80 | 2375.15 | 2377.35 | 2368.982 | 5759298 |
| ## 19 | | 2022-09-27 | 2394.00 | 2426.00 | 2360.10 | 2396.25 | 2387.815 | 7455448 |
| ## 20 | | 2022-09-28 | 2360.35 | 2378.00 | 2327.10 | 2332.45 | 2324.240 | 7844140 |
| ## 21 | | 2022-09-29 | 2360.00 | 2367.50 | 2313.00 | 2325.30 | 2317.115 | 6771046 |
| ## 22 | | 2022-09-30 | 2311.00 | 2402.00 | 2311.00 | 2377.75 | 2369.380 | 8589908 |
| ## 23 | | 2022-10-03 | 2391.50 | 2416.95 | 2363.00 | 2369.50 | 2361.159 | 5470030 |
| ## 24 | | 2022-10-04 | 2397.80 | 2418.00 | 2390.15 | 2413.20 | 2404.706 | 4129893 |
| ## 25 | | 2022-10-06 | 2429.00 | 2450.00 | 2418.15 | 2422.10 | 2413.574 | 6162021 |
| ## 26 | | 2022-10-07 | 2414.65 | 2443.90 | 2414.65 | 2432.35 | 2423.788 | 3560167 |
| ## 27 | | 2022-10-10 | 2405.00 | 2417.60 | 2388.00 | 2405.80 | 2397.332 | 2921076 |
| ## 28 | | 2022-10-11 | 2414.00 | 2414.00 | 2351.10 | 2357.90 | 2349.600 | 4252803 |
| ## 29 | | 2022-10-12 | 2352.00 | 2381.70 | 2343.10 | 2375.25 | 2366.889 | 3422992 |
| ## 30 | | 2022-10-13 | 2371.40 | 2394.00 | 2360.10 | 2382.80 | 2374.413 | 3382098 |
| ## 31 | | 2022-10-14 | 2415.00 | 2416.35 | 2369.10 | 2370.70 | 2362.355 | 4202459 |
| ## 32 | | 2022-10-17 | 2355.00 | 2414.00 | 2343.60 | 2408.75 | 2400.271 | 7720595 |
| ## 33 | | 2022-10-18 | 2422.00 | 2463.00 | 2420.15 | 2451.25 | 2442.622 | 5729899 |
| ## 34 | | 2022-10-19 | 2454.50 | 2527.85 | 2441.70 | 2493.90 | 2485.121 | 8882553 |
| ## 35 | | 2022-10-20 | 2485.00 | 2519.00 | 2485.00 | 2500.60 | 2491.798 | 4022919 |
| ## 36 | | 2022-10-21 | 2507.70 | 2516.80 | 2467.00 | 2471.60 | 2462.900 | 3804352 |
| ## 37 | | 2022-10-24 | 2460.00 | 2502.50 | 2455.30 | 2479.85 | 2471.121 | 1555270 |
| ## 38 | | 2022-10-25 | 2499.00 | 2499.00 | 2438.00 | 2441.55 | 2432.956 | 5645639 |
| ## 39 | | 2022-10-27 | 2458.00 | 2468.45 | 2432.80 | 2451.15 | 2442.522 | 5774775 |
| ## 40 | | 2022-10-28 | 2465.00 | 2535.00 | 2459.45 | 2526.15 | 2517.258 | 8126824 |
| ## 41 | | 2022-10-31 | 2541.00 | 2560.95 | 2532.20 | 2549.60 | 2540.625 | 5731802 |
| ## 42 | | 2022-11-01 | 2600.00 | 2600.00 | 2508.00 | 2529.85 | 2520.945 | 6443999 |
| ## 43 | | 2022-11-02 | 2532.30 | 2550.20 | 2515.00 | 2545.65 | 2536.689 | 4145144 |
| ## 44 | | 2022-11-03 | 2529.85 | 2559.55 | 2525.05 | 2555.15 | 2546.156 | 3089026 |
| ## 45 | | 2022-11-04 | 2553.90 | 2600.00 | 2551.10 | 2592.75 | 2583.624 | 5803737 |
| ## 46 | | 2022-11-07 | 2591.00 | 2610.30 | 2574.00 | 2606.60 | 2597.425 | 5440967 |
| ## 47 | | 2022-11-09 | 2610.30 | 2621.95 | 2590.05 | 2604.00 | 2594.834 | 5193814 |
| ## 48 | | 2022-11-10 | 2590.00 | 2596.55 | 2563.00 | 2572.50 | 2563.445 | 2753420 |
| ## 49 | | 2022-11-11 | 2600.00 | 2636.00 | 2588.00 | 2631.80 | 2622.536 | 5681124 |

| | | | | | | | |
|-------|------------|---------|---------|---------|---------|----------|----------|
| ## 50 | 2022-11-14 | 2630.75 | 2642.00 | 2605.15 | 2619.05 | 2609.831 | 4173395 |
| ## 51 | 2022-11-15 | 2622.30 | 2626.40 | 2590.00 | 2607.30 | 2598.122 | 3270388 |
| ## 52 | 2022-11-16 | 2610.00 | 2615.95 | 2581.35 | 2592.35 | 2583.225 | 4484007 |
| ## 53 | 2022-11-17 | 2584.95 | 2613.00 | 2580.00 | 2599.05 | 2589.901 | 3074259 |
| ## 54 | 2022-11-18 | 2606.75 | 2609.00 | 2571.10 | 2597.65 | 2588.506 | 2447425 |
| ## 55 | 2022-11-21 | 2588.00 | 2588.00 | 2543.10 | 2550.90 | 2541.921 | 2949108 |
| ## 56 | 2022-11-22 | 2545.00 | 2568.50 | 2536.50 | 2565.05 | 2556.021 | 3051201 |
| ## 57 | 2022-11-23 | 2575.00 | 2577.90 | 2552.25 | 2557.05 | 2548.049 | 2959787 |
| ## 58 | 2022-11-24 | 2566.00 | 2594.00 | 2548.20 | 2579.10 | 2570.022 | 4333225 |
| ## 59 | 2022-11-25 | 2589.00 | 2624.90 | 2582.10 | 2617.60 | 2608.386 | 3391988 |
| ## 60 | 2022-11-28 | 2608.90 | 2721.05 | 2502.00 | 2707.55 | 2698.020 | 14549929 |
| ## 61 | 2022-11-29 | 2703.95 | 2731.65 | 2694.00 | 2712.20 | 2702.653 | 5103687 |
| ## 62 | 2022-11-30 | 2712.50 | 2745.45 | 2698.20 | 2731.35 | 2721.736 | 12075137 |
| ## 63 | 2022-12-01 | 2741.80 | 2755.00 | 2716.00 | 2723.30 | 2713.714 | 4377696 |
| ## 64 | 2022-12-02 | 2730.00 | 2748.00 | 2700.60 | 2722.15 | 2712.568 | 5348595 |
| ## 65 | 2022-12-05 | 2712.00 | 2716.75 | 2678.00 | 2682.45 | 2673.008 | 6843367 |
| ## 66 | 2022-12-06 | 2665.10 | 2697.00 | 2661.00 | 2690.20 | 2680.730 | 3966243 |
| ## 67 | 2022-12-07 | 2685.00 | 2695.00 | 2642.15 | 2650.50 | 2641.170 | 3905263 |
| ## 68 | 2022-12-08 | 2660.00 | 2665.00 | 2640.10 | 2649.25 | 2639.925 | 3579858 |
| ## 69 | 2022-12-09 | 2646.00 | 2660.00 | 2601.85 | 2609.10 | 2599.916 | 5840633 |
| ## 70 | 2022-12-12 | 2585.50 | 2623.00 | 2585.00 | 2613.10 | 2603.902 | 4374946 |
| ## 71 | 2022-12-13 | 2613.10 | 2633.00 | 2606.70 | 2625.00 | 2615.760 | 3845839 |
| ## 72 | 2022-12-14 | 2637.65 | 2638.95 | 2611.00 | 2615.50 | 2606.293 | 3354618 |
| ## 73 | 2022-12-15 | 2602.50 | 2615.00 | 2571.00 | 2578.35 | 2569.274 | 4009765 |
| ## 74 | 2022-12-16 | 2571.00 | 2618.80 | 2558.15 | 2565.60 | 2556.569 | 7308934 |
| ## 75 | 2022-12-19 | 2581.00 | 2604.00 | 2566.70 | 2599.30 | 2590.150 | 3567363 |
| ## 76 | 2022-12-20 | 2583.90 | 2626.00 | 2566.00 | 2621.80 | 2612.571 | 3446291 |
| ## 77 | 2022-12-21 | 2621.00 | 2633.00 | 2576.10 | 2584.50 | 2575.403 | 3935463 |
| ## 78 | 2022-12-22 | 2598.00 | 2604.65 | 2566.75 | 2577.80 | 2568.726 | 3438692 |
| ## 79 | 2022-12-23 | 2563.30 | 2590.50 | 2492.25 | 2502.20 | 2493.392 | 4733657 |
| ## 80 | 2022-12-26 | 2514.75 | 2542.00 | 2492.40 | 2524.05 | 2515.165 | 2764496 |
| ## 81 | 2022-12-27 | 2530.00 | 2548.80 | 2515.25 | 2544.70 | 2535.743 | 2659749 |
| ## 82 | 2022-12-28 | 2538.00 | 2549.80 | 2521.50 | 2544.45 | 2535.493 | 3442509 |
| ## 83 | 2022-12-29 | 2527.00 | 2548.90 | 2525.50 | 2543.30 | 2534.348 | 3198493 |
| ## 84 | 2022-12-30 | 2545.10 | 2577.00 | 2541.10 | 2547.20 | 2538.234 | 3364092 |
| ## 85 | 2023-01-02 | 2550.00 | 2579.00 | 2548.20 | 2575.90 | 2566.833 | 2453414 |
| ## 86 | 2023-01-03 | 2565.05 | 2573.00 | 2547.80 | 2557.05 | 2548.049 | 3534596 |
| ## 87 | 2023-01-04 | 2557.00 | 2561.05 | 2514.00 | 2518.55 | 2509.685 | 4275746 |
| ## 88 | 2023-01-05 | 2523.50 | 2536.40 | 2504.00 | 2514.05 | 2505.201 | 6293519 |
| ## 89 | 2023-01-06 | 2526.65 | 2547.95 | 2518.30 | 2536.90 | 2527.970 | 2930338 |
| ## 90 | 2023-01-09 | 2545.30 | 2602.00 | 2543.35 | 2596.80 | 2587.659 | 4948549 |
| ## 91 | 2023-01-10 | 2606.00 | 2606.00 | 2546.00 | 2558.40 | 2549.394 | 3713755 |
| ## 92 | 2023-01-11 | 2552.50 | 2558.00 | 2521.10 | 2526.15 | 2517.258 | 5311657 |
| ## 93 | 2023-01-12 | 2524.85 | 2532.50 | 2465.00 | 2471.60 | 2462.900 | 8163366 |
| ## 94 | 2023-01-13 | 2458.40 | 2472.90 | 2434.60 | 2467.60 | 2458.914 | 9515473 |
| ## 95 | 2023-01-16 | 2472.70 | 2479.65 | 2427.00 | 2444.10 | 2435.497 | 6287407 |
| ## 96 | 2023-01-17 | 2458.00 | 2483.00 | 2450.60 | 2478.80 | 2470.075 | 4961585 |
| ## 97 | 2023-01-18 | 2473.50 | 2491.10 | 2460.35 | 2474.70 | 2465.989 | 6206382 |
| ## 98 | 2023-01-19 | 2472.90 | 2481.15 | 2456.65 | 2472.05 | 2463.348 | 5510333 |
| ## 99 | 2023-01-20 | 2475.00 | 2475.00 | 2437.25 | 2442.65 | 2434.052 | 6890325 |

| | | | | | | | | |
|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 100 | 2023-01-23 | 2449.00 | 2466.20 | 2425.00 | 2430.30 | 2421.745 | 5055324 |
| ## | 101 | 2023-01-24 | 2440.00 | 2443.65 | 2387.35 | 2415.95 | 2407.446 | 7609558 |
| ## | 102 | 2023-01-25 | 2412.45 | 2414.70 | 2380.00 | 2382.55 | 2374.163 | 5715684 |
| ## | 103 | 2023-01-27 | 2384.40 | 2387.35 | 2311.65 | 2337.35 | 2329.123 | 11920991 |
| ## | 104 | 2023-01-30 | 2331.70 | 2371.90 | 2301.00 | 2359.75 | 2351.444 | 10047822 |
| ## | 105 | 2023-01-31 | 2382.00 | 2387.65 | 2341.00 | 2353.85 | 2345.564 | 10472167 |
| ## | 106 | 2023-02-01 | 2379.95 | 2379.95 | 2305.00 | 2339.90 | 2331.663 | 8929007 |
| ## | 107 | 2023-02-02 | 2318.00 | 2348.00 | 2311.00 | 2326.95 | 2318.759 | 6305317 |
| ## | 108 | 2023-02-03 | 2349.00 | 2349.00 | 2293.00 | 2329.00 | 2320.802 | 11398850 |
| ## | 109 | 2023-02-06 | 2315.00 | 2321.00 | 2305.80 | 2311.45 | 2303.314 | 6847679 |
| ## | 110 | 2023-02-07 | 2312.00 | 2327.40 | 2293.00 | 2305.90 | 2297.783 | 6985001 |
| ## | 111 | 2023-02-08 | 2313.00 | 2359.90 | 2307.00 | 2351.95 | 2343.671 | 9765490 |
| ## | 112 | 2023-02-09 | 2353.45 | 2370.85 | 2334.00 | 2356.05 | 2347.757 | 6079228 |
| ## | 113 | 2023-02-10 | 2354.90 | 2354.90 | 2321.30 | 2336.65 | 2328.425 | 4979789 |
| ## | 114 | 2023-02-13 | 2340.20 | 2350.00 | 2313.55 | 2323.35 | 2315.172 | 4777674 |
| ## | 115 | 2023-02-14 | 2329.95 | 2381.90 | 2323.65 | 2378.10 | 2369.729 | 6609564 |
| ## | 116 | 2023-02-15 | 2376.00 | 2437.20 | 2373.00 | 2431.95 | 2423.389 | 15461902 |
| ## | 117 | 2023-02-16 | 2449.45 | 2463.80 | 2425.05 | 2430.05 | 2421.496 | 7967558 |
| ## | 118 | 2023-02-17 | 2420.00 | 2447.50 | 2410.60 | 2440.20 | 2431.610 | 5450092 |
| ## | 119 | 2023-02-20 | 2445.00 | 2449.75 | 2410.10 | 2414.40 | 2405.901 | 4078245 |
| ## | 120 | 2023-02-21 | 2424.00 | 2446.80 | 2412.35 | 2434.10 | 2425.532 | 6143298 |
| ## | 121 | 2023-02-22 | 2425.95 | 2430.00 | 2375.05 | 2378.90 | 2370.526 | 5087729 |
| ## | 122 | 2023-02-23 | 2378.00 | 2394.75 | 2361.35 | 2367.50 | 2359.166 | 4546655 |
| ## | 123 | 2023-02-24 | 2372.00 | 2396.15 | 2368.00 | 2383.70 | 2375.309 | 4353814 |
| ## | 124 | 2023-02-27 | 2382.00 | 2389.65 | 2351.70 | 2367.85 | 2359.515 | 5168667 |
| ## | 125 | 2023-02-28 | 2356.10 | 2367.00 | 2313.65 | 2322.55 | 2314.375 | 10150245 |
| ## | 126 | 2023-03-01 | 2344.00 | 2345.50 | 2323.25 | 2343.90 | 2335.649 | 5330852 |
| ## | 127 | 2023-03-02 | 2337.00 | 2351.65 | 2321.60 | 2326.05 | 2317.862 | 4307425 |
| ## | 128 | 2023-03-03 | 2349.15 | 2393.45 | 2341.55 | 2385.40 | 2377.003 | 6758115 |
| ## | 129 | 2023-03-06 | 2400.00 | 2424.60 | 2400.00 | 2408.70 | 2400.221 | 4694338 |
| ## | 130 | 2023-03-08 | 2408.70 | 2419.00 | 2385.00 | 2417.35 | 2408.841 | 7283694 |
| ## | 131 | 2023-03-09 | 2416.00 | 2416.90 | 2355.10 | 2359.25 | 2350.945 | 7492509 |
| ## | 132 | 2023-03-10 | 2341.50 | 2344.00 | 2315.05 | 2322.70 | 2314.524 | 6153681 |
| ## | 133 | 2023-03-13 | 2329.00 | 2344.00 | 2275.00 | 2284.50 | 2276.458 | 5894088 |
| ## | 134 | 2023-03-14 | 2280.00 | 2304.95 | 2269.05 | 2275.95 | 2267.938 | 7396699 |
| ## | 135 | 2023-03-15 | 2284.10 | 2298.30 | 2227.40 | 2237.05 | 2229.176 | 10027725 |
| ## | 136 | 2023-03-16 | 2243.00 | 2254.00 | 2202.20 | 2225.90 | 2218.065 | 8474595 |
| ## | 137 | 2023-03-17 | 2244.75 | 2251.95 | 2212.70 | 2223.10 | 2215.275 | 15697554 |
| ## | 138 | 2023-03-20 | 2215.00 | 2220.00 | 2180.00 | 2201.25 | 2193.501 | 9010595 |
| ## | 139 | 2023-03-21 | 2218.95 | 2274.00 | 2217.00 | 2269.70 | 2261.711 | 9876263 |
| ## | 140 | 2023-03-22 | 2285.00 | 2291.45 | 2270.00 | 2276.60 | 2268.586 | 5039622 |
| ## | 141 | 2023-03-23 | 2268.00 | 2269.90 | 2243.05 | 2247.80 | 2239.888 | 7499082 |
| ## | 142 | 2023-03-24 | 2245.25 | 2250.00 | 2198.00 | 2203.30 | 2195.544 | 5711497 |
| ## | 143 | 2023-03-27 | 2217.50 | 2254.00 | 2200.20 | 2237.55 | 2229.674 | 6486068 |
| ## | 144 | 2023-03-28 | 2245.00 | 2256.50 | 2237.00 | 2248.00 | 2240.087 | 5804018 |
| ## | 145 | 2023-03-29 | 2239.00 | 2244.80 | 2211.10 | 2234.70 | 2226.834 | 8678073 |
| ## | 146 | 2023-03-31 | 2255.00 | 2343.45 | 2254.70 | 2331.05 | 2322.845 | 13001005 |
| ## | 147 | 2023-04-03 | 2345.00 | 2349.00 | 2315.00 | 2331.45 | 2323.243 | 4750238 |
| ## | 148 | 2023-04-05 | 2348.00 | 2348.00 | 2308.55 | 2325.85 | 2317.663 | 7505339 |
| ## | 149 | 2023-04-06 | 2318.15 | 2354.00 | 2318.15 | 2341.45 | 2333.208 | 8507771 |

| | | | | | | | | |
|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 150 | 2023-04-10 | 2350.00 | 2350.40 | 2321.55 | 2324.85 | 2316.667 | 5981688 |
| ## | 151 | 2023-04-11 | 2334.00 | 2341.00 | 2324.05 | 2336.35 | 2328.126 | 4865301 |
| ## | 152 | 2023-04-12 | 2336.35 | 2367.80 | 2330.05 | 2346.65 | 2338.390 | 8389646 |
| ## | 153 | 2023-04-13 | 2353.00 | 2365.80 | 2342.00 | 2355.50 | 2347.208 | 5712541 |
| ## | 154 | 2023-04-17 | 2424.95 | 2424.95 | 2349.05 | 2367.45 | 2359.116 | 8274452 |
| ## | 155 | 2023-04-18 | 2377.00 | 2377.00 | 2326.00 | 2340.35 | 2332.112 | 4802172 |
| ## | 156 | 2023-04-19 | 2339.05 | 2357.90 | 2332.20 | 2352.00 | 2343.721 | 5664207 |
| ## | 157 | 2023-04-20 | 2354.10 | 2359.00 | 2332.10 | 2346.05 | 2337.792 | 3233882 |
| ## | 158 | 2023-04-21 | 2350.65 | 2361.00 | 2336.40 | 2349.00 | 2340.731 | 3529236 |
| ## | 159 | 2023-04-24 | 2375.00 | 2380.90 | 2348.00 | 2358.00 | 2349.700 | 5970048 |
| ## | 160 | 2023-04-25 | 2366.00 | 2380.60 | 2350.50 | 2376.05 | 2367.686 | 4262471 |
| ## | 161 | 2023-04-26 | 2379.00 | 2386.10 | 2354.05 | 2362.10 | 2353.785 | 3977129 |
| ## | 162 | 2023-04-27 | 2375.00 | 2384.00 | 2364.00 | 2377.05 | 2368.683 | 4230627 |
| ## | 163 | 2023-04-28 | 2382.00 | 2423.90 | 2381.75 | 2420.50 | 2411.980 | 7183342 |
| ## | 164 | 2023-05-02 | 2436.20 | 2445.80 | 2428.10 | 2441.05 | 2432.458 | 5991101 |
| ## | 165 | 2023-05-03 | 2445.00 | 2445.00 | 2413.05 | 2420.10 | 2411.581 | 3259053 |
| ## | 166 | 2023-05-04 | 2421.15 | 2452.85 | 2414.60 | 2448.00 | 2439.383 | 3985159 |
| ## | 167 | 2023-05-05 | 2441.00 | 2461.35 | 2436.00 | 2441.75 | 2433.155 | 4036548 |
| ## | 168 | 2023-05-08 | 2450.00 | 2483.65 | 2444.15 | 2471.90 | 2463.199 | 4224469 |
| ## | 169 | 2023-05-09 | 2475.00 | 2486.80 | 2463.25 | 2479.55 | 2470.822 | 2983468 |
| ## | 170 | 2023-05-10 | 2490.00 | 2499.85 | 2481.20 | 2496.60 | 2487.812 | 5017544 |
| ## | 171 | 2023-05-11 | 2498.95 | 2509.50 | 2476.55 | 2480.30 | 2471.569 | 4872451 |
| ## | 172 | 2023-05-12 | 2469.80 | 2487.40 | 2456.50 | 2484.35 | 2475.605 | 3209889 |
| ## | 173 | 2023-05-15 | 2489.90 | 2504.55 | 2473.15 | 2489.25 | 2480.488 | 3153587 |
| ## | 174 | 2023-05-16 | 2494.00 | 2499.60 | 2450.15 | 2453.80 | 2445.163 | 4023000 |
| ## | 175 | 2023-05-17 | 2463.00 | 2465.00 | 2429.00 | 2439.30 | 2430.714 | 4060722 |
| ## | 176 | 2023-05-18 | 2449.55 | 2457.00 | 2427.15 | 2434.05 | 2425.482 | 4857531 |
| ## | 177 | 2023-05-19 | 2434.05 | 2445.95 | 2418.85 | 2441.95 | 2433.354 | 3715280 |
| ## | 178 | 2023-05-22 | 2435.00 | 2466.00 | 2432.35 | 2455.00 | 2446.358 | 3431208 |
| ## | 179 | 2023-05-23 | 2460.65 | 2468.00 | 2451.45 | 2454.55 | 2445.910 | 2811473 |
| ## | 180 | 2023-05-24 | 2445.90 | 2464.00 | 2433.45 | 2440.25 | 2431.660 | 3743804 |
| ## | 181 | 2023-05-25 | 2433.90 | 2449.00 | 2416.05 | 2439.95 | 2431.361 | 5301647 |
| ## | 182 | 2023-05-26 | 2458.00 | 2509.00 | 2450.75 | 2506.50 | 2497.677 | 5827017 |
| ## | 183 | 2023-05-29 | 2521.00 | 2530.00 | 2507.20 | 2520.60 | 2511.728 | 4619754 |
| ## | 184 | 2023-05-30 | 2520.60 | 2537.70 | 2514.35 | 2519.95 | 2511.080 | 5234564 |
| ## | 185 | 2023-05-31 | 2500.00 | 2509.85 | 2461.00 | 2469.90 | 2461.206 | 12510304 |
| ## | 186 | 2023-06-01 | 2480.15 | 2484.90 | 2458.00 | 2463.25 | 2454.579 | 6734525 |
| ## | 187 | 2023-06-02 | 2471.00 | 2482.85 | 2451.00 | 2455.20 | 2446.558 | 7291995 |
| ## | 188 | 2023-06-05 | 2467.20 | 2483.75 | 2458.45 | 2477.25 | 2468.530 | 5034355 |
| ## | 189 | 2023-06-06 | 2483.45 | 2487.70 | 2462.00 | 2479.35 | 2470.623 | 3458161 |
| ## | 190 | 2023-06-07 | 2487.00 | 2500.00 | 2472.60 | 2498.15 | 2489.356 | 4759238 |
| ## | 191 | 2023-06-08 | 2506.00 | 2516.85 | 2491.00 | 2499.65 | 2490.851 | 5570815 |
| ## | 192 | 2023-06-09 | 2507.00 | 2508.55 | 2478.00 | 2481.95 | 2473.213 | 2712243 |
| ## | 193 | 2023-06-12 | 2475.50 | 2489.20 | 2465.00 | 2484.15 | 2475.406 | 2949893 |
| ## | 194 | 2023-06-13 | 2495.00 | 2523.45 | 2486.25 | 2520.85 | 2511.977 | 5190958 |
| ## | 195 | 2023-06-14 | 2521.00 | 2555.00 | 2517.00 | 2551.85 | 2542.868 | 6127509 |
| ## | 196 | 2023-06-15 | 2551.80 | 2562.55 | 2535.50 | 2552.55 | 2543.565 | 5451926 |
| ## | 197 | 2023-06-16 | 2560.20 | 2582.40 | 2560.20 | 2577.40 | 2568.327 | 11155180 |
| ## | 198 | 2023-06-19 | 2584.00 | 2584.00 | 2542.65 | 2551.80 | 2542.818 | 3137532 |
| ## | 199 | 2023-06-20 | 2547.55 | 2564.00 | 2535.00 | 2557.10 | 2548.099 | 3194085 |

| | | | | | | | | |
|----|-----|------------|---------|---------|---------|---------|----------|----------|
| ## | 200 | 2023-06-21 | 2557.00 | 2569.85 | 2548.00 | 2564.30 | 2555.274 | 3212779 |
| ## | 201 | 2023-06-22 | 2556.00 | 2573.30 | 2532.00 | 2535.50 | 2526.575 | 3516244 |
| ## | 202 | 2023-06-23 | 2528.90 | 2533.40 | 2512.00 | 2514.75 | 2505.898 | 3059084 |
| ## | 203 | 2023-06-26 | 2507.00 | 2515.40 | 2488.70 | 2495.55 | 2486.766 | 5833893 |
| ## | 204 | 2023-06-27 | 2496.55 | 2509.50 | 2486.65 | 2496.45 | 2487.662 | 4471687 |
| ## | 205 | 2023-06-28 | 2496.45 | 2496.45 | 2496.45 | 2496.45 | 2487.662 | 0 |
| ## | 206 | 2023-06-30 | 2546.40 | 2556.65 | 2533.45 | 2550.25 | 2541.273 | 5146441 |
| ## | 207 | 2023-07-03 | 2558.05 | 2622.00 | 2555.35 | 2615.70 | 2606.493 | 5609248 |
| ## | 208 | 2023-07-04 | 2625.00 | 2625.00 | 2573.25 | 2588.75 | 2579.637 | 3720447 |
| ## | 209 | 2023-07-05 | 2609.00 | 2609.00 | 2575.80 | 2584.50 | 2575.403 | 4729479 |
| ## | 210 | 2023-07-06 | 2576.05 | 2644.45 | 2576.05 | 2638.75 | 2629.462 | 8822948 |
| ## | 211 | 2023-07-07 | 2635.00 | 2664.95 | 2628.00 | 2633.60 | 2624.330 | 6172684 |
| ## | 212 | 2023-07-10 | 2688.90 | 2756.00 | 2675.00 | 2735.05 | 2725.423 | 15340262 |
| ## | 213 | 2023-07-11 | 2752.90 | 2770.00 | 2737.60 | 2764.70 | 2754.968 | 9262001 |
| ## | 214 | 2023-07-12 | 2766.30 | 2802.00 | 2761.65 | 2767.75 | 2758.008 | 8645662 |
| ## | 215 | 2023-07-13 | 2783.90 | 2799.00 | 2737.25 | 2743.00 | 2733.345 | 6776172 |
| ## | 216 | 2023-07-14 | 2750.00 | 2760.90 | 2725.10 | 2740.70 | 2731.053 | 6979790 |
| ## | 217 | 2023-07-17 | 2747.00 | 2815.05 | 2728.00 | 2796.70 | 2786.855 | 10254545 |
| ## | 218 | 2023-07-18 | 2817.00 | 2837.45 | 2793.00 | 2820.45 | 2810.522 | 11937761 |
| ## | 219 | 2023-07-19 | 2830.00 | 2856.00 | 2797.00 | 2841.85 | 2831.847 | 18054869 |
| ## | 220 | 2023-07-20 | 2580.00 | 2630.95 | 2580.00 | 2619.85 | 2610.628 | 19358812 |
| ## | 221 | 2023-07-21 | 2609.00 | 2614.90 | 2523.60 | 2538.75 | 2529.813 | 15124619 |
| ## | 222 | 2023-07-24 | 2481.00 | 2514.95 | 2469.30 | 2487.40 | 2478.644 | 11863933 |
| ## | 223 | 2023-07-25 | 2494.00 | 2505.20 | 2480.00 | 2485.80 | 2477.050 | 6013010 |
| ## | 224 | 2023-07-26 | 2485.00 | 2547.00 | 2485.00 | 2526.20 | 2517.308 | 6455506 |
| ## | 225 | 2023-07-27 | 2534.05 | 2537.65 | 2490.35 | 2502.70 | 2493.890 | 8613449 |
| ## | 226 | 2023-07-28 | 2512.05 | 2542.85 | 2500.55 | 2527.85 | 2518.952 | 10413926 |
| ## | 227 | 2023-07-31 | 2527.85 | 2553.90 | 2517.95 | 2549.25 | 2540.277 | 4275587 |
| ## | 228 | 2023-08-01 | 2555.00 | 2559.00 | 2505.30 | 2513.20 | 2504.354 | 4768316 |
| ## | 229 | 2023-08-02 | 2509.20 | 2512.00 | 2463.60 | 2486.35 | 2477.598 | 6374107 |
| ## | 230 | 2023-08-03 | 2475.30 | 2500.90 | 2458.05 | 2475.90 | 2467.185 | 5084175 |
| ## | 231 | 2023-08-04 | 2498.80 | 2516.00 | 2471.60 | 2509.55 | 2500.716 | 11442805 |
| ## | 232 | 2023-08-07 | 2521.00 | 2528.40 | 2505.00 | 2523.85 | 2514.966 | 2991435 |
| ## | 233 | 2023-08-08 | 2528.00 | 2534.45 | 2499.55 | 2508.65 | 2499.819 | 4922036 |
| ## | 234 | 2023-08-09 | 2504.85 | 2529.00 | 2481.10 | 2525.20 | 2516.311 | 5743293 |
| ## | 235 | 2023-08-10 | 2524.95 | 2550.00 | 2508.45 | 2536.45 | 2527.522 | 7735299 |
| ## | 236 | 2023-08-11 | 2532.45 | 2558.85 | 2512.35 | 2547.15 | 2538.184 | 11089665 |
| ## | 237 | 2023-08-14 | 2539.00 | 2582.30 | 2525.00 | 2577.25 | 2568.178 | 4787906 |
| ## | 238 | 2023-08-16 | 2551.00 | 2582.80 | 2551.00 | 2575.15 | 2566.085 | 5101556 |
| ## | 239 | 2023-08-17 | 2567.10 | 2578.10 | 2532.85 | 2538.00 | 2529.066 | 6836872 |
| ## | 240 | 2023-08-18 | 2531.25 | 2577.60 | 2508.55 | 2556.80 | 2547.800 | 9319989 |
| ## | 241 | 2023-08-21 | 2539.95 | 2555.45 | 2515.65 | 2520.00 | 2520.000 | 4610873 |
| ## | 242 | 2023-08-22 | 2516.90 | 2537.95 | 2499.00 | 2519.40 | 2519.400 | 3856522 |
| ## | 243 | 2023-08-23 | 2524.20 | 2542.85 | 2516.95 | 2522.20 | 2522.200 | 4758976 |
| ## | 244 | 2023-08-24 | 2539.90 | 2539.90 | 2471.00 | 2479.80 | 2479.800 | 7070010 |
| ## | 245 | 2023-08-25 | 2456.00 | 2505.00 | 2442.60 | 2468.35 | 2468.350 | 11111200 |
| ## | 246 | 2023-08-28 | 2472.00 | 2484.00 | 2431.10 | 2443.75 | 2443.750 | 6290413 |
| ## | 247 | 2023-08-29 | 2452.05 | 2453.45 | 2408.15 | 2420.35 | 2420.350 | 8438322 |
| ## | 248 | 2023-08-30 | 2432.00 | 2443.00 | 2415.00 | 2418.05 | 2418.050 | 6084473 |
| ## | 249 | 2023-08-31 | 2423.00 | 2425.00 | 2399.90 | 2407.00 | 2407.000 | 10819300 |


```
## 250 2023-09-01 2406.55 2425.65 2401.65 2412.65 2412.650 9056421
## 251 2023-09-04 2412.65 2423.65 2405.30 2410.70 2410.700 4673813
## 252 2023-09-05 2420.00 2433.95 2412.45 2423.60 2423.600 4337938
## 253 2023-09-06 2421.10 2436.15 2417.25 2428.70 2428.700 4100185
## 254 2023-09-07 2421.70 2438.25 2411.00 2432.00 2432.000 6826286
## 255 2023-09-08 2440.00 2456.00 2422.95 2448.20 2448.200 11554644
## 256 2023-09-11 2452.00 2476.85 2452.00 2474.60 2474.600 6635537
## 257 2023-09-12 2483.00 2483.00 2435.95 2438.85 2438.850 8127833
## 258 2023-09-13 2440.00 2462.65 2426.25 2451.05 2451.050 6401669
## 259 2023-09-14 2460.00 2465.80 2445.00 2453.30 2453.300 4604818
## 260 2023-09-15 2468.00 2468.00 2449.50 2457.85 2457.850 12734296
## 261 2023-09-18 2440.05 2451.00 2432.05 2436.45 2436.450 3758150
## 262 2023-09-20 2423.05 2427.60 2355.00 2382.15 2382.150 28540942
## 263 2023-09-21 2374.95 2390.10 2360.00 2364.80 2364.800 6113091
## 264 2023-09-22 2376.00 2382.45 2350.00 2354.95 2354.950 9588393
## 265 2023-09-25 2350.40 2360.70 2335.10 2340.45 2340.450 7127442
## 266 2023-09-26 2338.55 2350.20 2335.60 2342.50 2342.500 5043891
## 267 2023-09-27 2343.50 2371.80 2338.50 2368.90 2368.900 5861389
## 268 2023-09-28 2383.00 2383.00 2325.00 2334.10 2334.100 7259173
## 269 2023-09-29 2341.80 2369.10 2334.10 2345.00 2345.000 6171007
```

Calculating the Daily Return and Portfolio Net Return

```
religare_n<-length((religare$Adj.Close))
vakrange_n<-length((vakrange$Adj.Close))
Petronet_n<-length((Petronet$Adj.Close))
reliance_n<-length((reliance$Adj.Close))
reliance_DailyRet<-(reliance$Adj.Close[-1]/reliance$Adj.Close[-reliance_n])-1
vakrange_DailyRet<-(vakrange$Adj.Close[-1]/vakrange$Adj.Close[-vakrange_n])-1
Petronet_DailyRet<-(Petronet$Adj.Close[-1]/Petronet$Adj.Close[-Petronet_n])-1
religare_DailyRet<-(religare$Adj.Close[-1]/religare$Adj.Close[-religare_n])-1
Portfolio_DailyRet<-data.frame(reliance_DailyRet,vakrange_DailyRet,religare_D
ailyRet,Petronet_DailyRet)
Portfolio_DailyRet
```

```
##      reliance_DailyRet vakrange_DailyRet religare_DailyRet
Petronet_DailyRet
## 1      -1.167783e-02      -0.005415183      0.0072201572
-0.0141167052
## 2       1.553061e-02       0.194192523      -0.0156402349
-0.0025403630
## 3       1.052613e-02       0.001519732      -0.0095994503
0.0006946239
## 4      -5.814842e-03       0.124430862       0.0000000000
0.0115686987
## 5       1.413791e-03      -0.032388758       0.0143716171
-0.0016010450
## 6      -6.227231e-03       0.050209286       0.0013179374
-0.0018327665
```

| | | | |
|---------------|---------------|--------------|---------------|
| ## 7 | 1.118977e-02 | 0.070385151 | 0.0621914918 |
| 0.0041311820 | | | |
| ## 8 | 8.352481e-03 | 0.124069494 | 0.0498761047 |
| -0.0022856081 | | | |
| ## 9 | -1.198591e-02 | -0.054083865 | 0.0120979819 |
| -0.0135166497 | | | |
| ## 10 | -9.909828e-03 | -0.086347693 | -0.0102040816 |
| 0.0009289369 | | | |
| ## 11 | -2.477851e-02 | 0.048531160 | -0.0506627747 |
| -0.0252900402 | | | |
| ## 12 | 1.300402e-03 | 0.018270447 | 0.0155134973 |
| -0.0078552639 | | | |
| ## 13 | 1.598794e-04 | -0.021531013 | 0.0519401180 |
| 0.0129558347 | | | |
| ## 14 | 2.756865e-03 | -0.046454815 | -0.0261399951 |
| -0.0151587174 | | | |
| ## 15 | -9.423306e-03 | 0.033376136 | -0.0196837943 |
| -0.0009620016 | | | |
| ## 16 | -1.874425e-02 | -0.033540392 | -0.0219045079 |
| -0.0105921368 | | | |
| ## 17 | -2.547650e-02 | -0.075835451 | -0.0251944199 |
| -0.0197080375 | | | |
| ## 18 | 7.950039e-03 | -0.033379691 | 0.0417996370 |
| -0.0044675788 | | | |
| ## 19 | -2.662494e-02 | -0.018705144 | 0.0088820643 |
| -0.0057343375 | | | |
| ## 20 | -3.065414e-03 | -0.029325480 | 0.0030358228 |
| 0.0027582965 | | | |
| ## 21 | 2.255623e-02 | 0.042296108 | 0.0124092194 |
| -0.0002500430 | | | |
| ## 22 | -3.469661e-03 | 0.033333324 | 0.0188340448 |
| -0.0062531163 | | | |
| ## 23 | 1.844269e-02 | 0.089761475 | -0.0023473827 |
| 0.0236596999 | | | |
| ## 24 | 3.688041e-03 | 0.009009062 | 0.0152941529 |
| 0.0046718531 | | | |
| ## 25 | 4.231843e-03 | -0.010204039 | -0.0118771896 |
| 0.0070973186 | | | |
| ## 26 | -1.091537e-02 | -0.045103071 | 0.0123130517 |
| -0.0145807449 | | | |
| ## 27 | -1.991024e-02 | -0.055330684 | 0.0214307103 |
| -0.0197288395 | | | |
| ## 28 | 7.358300e-03 | 0.000000000 | -0.0243833448 |
| 0.0037736125 | | | |
| ## 29 | 3.178619e-03 | -0.002857045 | 0.0680034687 |
| -0.0105262886 | | | |
| ## 30 | -5.078148e-03 | -0.014326730 | 0.0059864272 |
| 0.0182370246 | | | |
| ## 31 | 1.605020e-02 | -0.036337100 | -0.0102786526 |
| -0.0002487368 | | | |

| | | | |
|---------------|---------------|--------------|---------------|
| ## 32 | 1.764398e-02 | 0.021116048 | -0.0218638976 |
| 0.0024882271 | | | |
| ## 33 | 1.739924e-02 | -0.011816819 | -0.0078233810 |
| 0.0019856056 | | | |
| ## 34 | 2.686595e-03 | -0.013452993 | -0.0053505885 |
| 0.0037156574 | | | |
| ## 35 | -1.159713e-02 | -0.009090841 | -0.0130237991 |
| -0.0004936277 | | | |
| ## 36 | 3.337914e-03 | 0.000000000 | 0.0071715432 |
| 0.0007406830 | | | |
| ## 37 | -1.544452e-02 | -0.009174273 | 0.0253488859 |
| -0.0002466288 | | | |
| ## 38 | 3.931809e-03 | -0.009259375 | -0.0236111111 |
| -0.0012339450 | | | |
| ## 39 | 3.059792e-02 | -0.004672800 | 0.0068278634 |
| 0.0326167203 | | | |
| ## 40 | 9.282988e-03 | -0.014084526 | -0.0064989772 |
| -0.0162718554 | | | |
| ## 41 | -7.746289e-03 | 0.000000000 | 0.0170648461 |
| 0.0245682484 | | | |
| ## 42 | 6.245333e-03 | 0.079365094 | -0.0288031818 |
| 0.0035612744 | | | |
| ## 43 | 3.731854e-03 | 0.000000000 | 0.0095019237 |
| -0.0104093642 | | | |
| ## 44 | 1.471543e-02 | -0.008823580 | 0.0228180259 |
| 0.0074109830 | | | |
| ## 45 | 5.341827e-03 | -0.004451094 | -0.0237032902 |
| 0.0087802484 | | | |
| ## 46 | -9.974576e-04 | -0.014903098 | -0.0042844901 |
| -0.0150552270 | | | |
| ## 47 | -1.209679e-02 | -0.021180033 | -0.0318416690 |
| 0.0155242424 | | | |
| ## 48 | 2.305152e-02 | -0.006182323 | 0.0041481304 |
| -0.0018814687 | | | |
| ## 49 | -4.844577e-03 | 0.035769818 | 0.0194747894 |
| 0.0091893248 | | | |
| ## 50 | -4.486398e-03 | -0.012011961 | 0.0222865760 |
| -0.0011673151 | | | |
| ## 51 | -5.733839e-03 | -0.015197564 | 0.0334087984 |
| -0.0011687528 | | | |
| ## 52 | 2.584470e-03 | -0.006172875 | -0.0257534082 |
| 0.0046804865 | | | |
| ## 53 | -5.387321e-04 | -0.034161502 | -0.0120922889 |
| -0.0111809365 | | | |
| ## 54 | -1.799704e-02 | -0.006430906 | -0.0222032117 |
| 0.0148599408 | | | |
| ## 55 | 5.547121e-03 | -0.080906102 | -0.0197961805 |
| -0.0096015635 | | | |
| ## 56 | -3.118785e-03 | 0.042253519 | 0.0406889858 |
| 0.0087252218 | | | |

| | | | |
|---------------|---------------|--------------|---------------|
| ## 57 | 8.623229e-03 | 0.013513456 | -0.0273972779 |
| -0.0048054344 | | | |
| ## 58 | 1.492770e-02 | 0.000000000 | 0.0918427791 |
| 0.0091743210 | | | |
| ## 59 | 3.436351e-02 | -0.001666610 | 0.0247244876 |
| 0.0100478245 | | | |
| ## 60 | 1.717387e-03 | 0.001669392 | -0.0369786951 |
| 0.0035528179 | | | |
| ## 61 | 7.060662e-03 | 0.020000050 | -0.0100762851 |
| 0.0037761958 | | | |
| ## 62 | -2.947195e-03 | 0.004901924 | 0.0134800385 |
| -0.0082294651 | | | |
| ## 63 | -4.223879e-04 | 0.003252052 | -0.0192725465 |
| 0.0052158125 | | | |
| ## 64 | -1.458399e-02 | -0.006483020 | -0.0121782290 |
| 0.0054244612 | | | |
| ## 65 | 2.889126e-03 | -0.013050516 | -0.0252171481 |
| 0.0075064774 | | | |
| ## 66 | -1.475728e-02 | -0.009917347 | -0.0068985169 |
| 0.0020954718 | | | |
| ## 67 | -4.716110e-04 | 0.001669392 | 0.0147612330 |
| 0.0051115223 | | | |
| ## 68 | -1.515518e-02 | -0.091666668 | 0.0025670108 |
| -0.0117891721 | | | |
| ## 69 | 1.533065e-03 | 0.044036771 | -0.0036984011 |
| 0.0028070635 | | | |
| ## 70 | 4.553995e-03 | 0.001757409 | 0.0074242602 |
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| ## 71 | -3.619045e-03 | 0.036842145 | 0.0116213326 |
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| ## 72 | -1.420381e-02 | -0.023688699 | -0.0280190534 |
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| ## 73 | -4.945007e-03 | -0.010398605 | -0.0023061055 |
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| ## 74 | 1.313530e-02 | -0.005253901 | -0.0043340074 |
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| ## 75 | 8.656215e-03 | -0.003521147 | 0.0055136215 |
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| ## 76 | -1.422687e-02 | -0.026501815 | -0.0317460317 |
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| ## 77 | -2.592416e-03 | -0.019963674 | -0.0163934426 |
| 0.0044906326 | | | |
| ## 78 | -2.932737e-02 | -0.050000032 | -0.0469696970 |
| -0.0214117823 | | | |
| ## 79 | 8.732358e-03 | 0.064327511 | 0.0279808839 |
| 0.0091368943 | | | |
| ## 80 | 8.181328e-03 | -0.001831513 | 0.0519641776 |
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| ## 81 | -9.830177e-05 | 0.011009165 | 0.0147015581 |
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| ## 82 | -4.518852e-04 | -0.009074391 | 0.0121703330 |
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| ## 83 | 1.533425e-03 | 0.016483539 | -0.0057257374 |
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| ## 84 | 1.126723e-02 | 0.007207249 | -0.0083501126 |
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| ## 85 | -7.317753e-03 | 0.010733407 | 0.0421022075 |
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| ## 86 | -1.505642e-02 | -0.015929261 | 0.0027862915 |
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| ## 87 | -1.786730e-03 | -0.001798500 | -0.0063906308 |
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| ## 89 | 2.361152e-02 | -0.010889283 | 0.0014176353 |
| 0.0064250215 | | | |
| ## 90 | -1.478745e-02 | -0.003669673 | -0.0002831427 |
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| ## 91 | -1.260553e-02 | 0.000000000 | 0.0039648654 |
| 0.0029565431 | | | |
| ## 92 | -2.159400e-02 | -0.007366451 | -0.0101551650 |
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| ## 93 | -1.618451e-03 | 0.012986939 | -0.0151039843 |
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| ## 94 | -9.523406e-03 | -0.005494464 | -0.0002893692 |
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| ## 96 | -1.654077e-03 | -0.001845029 | 0.0325008077 |
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| ## 97 | -1.070818e-03 | -0.009242124 | 0.0052462488 |
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| ## 98 | -1.189301e-02 | -0.005597047 | -0.0176863036 |
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| ## 101 | -1.382481e-02 | -0.016697647 | -0.0267489879 |
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| ## 102 | -1.897122e-02 | -0.024528293 | -0.0413772629 |
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| ## 103 | 9.583457e-03 | -0.007736989 | 0.0047258980 |
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| ## 104 | -2.500230e-03 | 0.050682363 | -0.0153652998 |
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| ## 105 | -5.926558e-03 | -0.016697647 | -0.0175159236 |
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| ## 107 | 8.810614e-04 | -0.022429924 | -0.0202618461 |
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| ## 121 | -4.792127e-03 | -0.015418502 | 0.0094957238 |
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| ## 128 | 9.767769e-03 | 0.000000000 | 0.0423333733 |
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| ## 129 | 3.591283e-03 | -0.023913009 | -0.0147106038 |
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| ## 130 | -2.403469e-02 | 0.002227184 | 0.0262901845 |
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| ## 131 | -1.549223e-02 | -0.026666687 | 0.0012650031 |
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| ## 132 | -1.644633e-02 | -0.047945210 | -0.0518003591 |
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| ## 146 | 1.715298e-04 | 0.034375012 | 0.0441378897 |
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| ## 148 | 6.707153e-03 | 0.139817585 | -0.0223807793 |
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| ## 149 | -7.089597e-03 | -0.093333289 | -0.0126077906 |
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| ## 151 | 4.408450e-03 | -0.008823580 | -0.0250836120 |
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| ## 152 | 3.771334e-03 | 0.002967376 | -0.0096054477 |
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| ## 153 | 5.073243e-03 | -0.011834270 | 0.0128160092 |
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| ## 154 | -1.144683e-02 | 0.017964055 | 0.0235977912 |
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| ## 155 | 4.977842e-03 | 0.008823462 | 0.0197127439 |
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| ## 156 | -2.529719e-03 | -0.014577228 | 0.0026211926 |
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| ## 157 | 1.257363e-03 | 0.005917194 | -0.0094771046 |
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| ## 158 | 3.831393e-03 | -0.017647043 | -0.0059386934 |
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| ## 159 | 7.654839e-03 | -0.002994029 | 0.0560903574 |
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| ## 160 | -5.871081e-03 | -0.006006041 | -0.0232558885 |
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| ## 161 | 6.329150e-03 | 0.009063497 | 0.0299228390 |
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| ## 162 | 1.827888e-02 | 0.005987938 | -0.0059356263 |
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| ## 163 | 8.490032e-03 | 0.056547592 | 0.0402262336 |
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| ## 164 | -8.582358e-03 | 0.008450754 | -0.0193353293 |
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| ## 166 | -2.553116e-03 | -0.011142126 | 0.0015639662 |
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| ## 167 | 1.234763e-02 | -0.011267559 | 0.0031230480 |
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| ## 168 | 3.094875e-03 | -0.011395964 | 0.0074719611 |
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| ## 169 | 6.876250e-03 | -0.014409190 | 0.0488256728 |
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| ## 170 | -6.528900e-03 | 0.046783543 | -0.0194460993 |
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| ## 172 | 1.972272e-03 | 0.000000000 | 0.0249240486 |
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| ## 173 | -1.424123e-02 | -0.013888969 | 0.0071174197 |
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| ## 174 | -5.909208e-03 | -0.019718313 | -0.0017668021 |
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| ## 175 | -2.152226e-03 | -0.020114946 | -0.0038347729 |
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| ## 176 | 3.245569e-03 | 0.002932686 | 0.0020727923 |
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| ## 177 | 5.344125e-03 | 0.000000000 | 0.0195035642 |
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| ## 178 | -1.833280e-04 | -0.002924111 | -0.0026086783 |
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| ## 179 | -5.825853e-03 | 0.011730274 | -0.0075559603 |
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| ## 180 | -1.229909e-04 | 0.000000000 | 0.0052708287 |
| 0.0015545135 | | | |
| ## 181 | 2.727512e-02 | 0.000000000 | 0.0058258085 |
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| ## 182 | 5.625442e-03 | 0.008695586 | -0.0121632845 |
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| ## 183 | -2.579695e-04 | -0.008620625 | -0.0184697094 |
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| ## 187 | 8.980950e-03 | 0.043731800 | -0.0123308451 |
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| ## 188 | 8.477815e-04 | -0.011173137 | -0.0018270585 |
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| ## 189 | 7.582559e-03 | 0.005649637 | 0.0186089269 |
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| ## 191 | -7.080991e-03 | 0.030303096 | -0.0202984716 |
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| ## 192 | 8.864512e-04 | -0.010695249 | -0.0088361484 |
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| ## 193 | 1.477366e-02 | -0.018918920 | 0.0184445134 |
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| ## 194 | 1.229753e-02 | -0.024793367 | 0.0159976402 |
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| ## 195 | 2.742042e-04 | -0.084745743 | 0.0219845332 |
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| ## 196 | 9.735333e-03 | 0.049382691 | 0.0055232384 |
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| ## 197 | -9.932443e-03 | -0.020588236 | -0.0213934493 |
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| ## 198 | 2.077024e-03 | 0.000000000 | 0.0115214003 |
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| ## 199 | 2.815652e-03 | -0.009009061 | 0.0014602804 |
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| ## 200 | -1.123118e-02 | -0.021212184 | 0.0069991077 |
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| ## 201 | -8.183807e-03 | 0.006191987 | -0.0011583956 |
| -0.0181737209 | | | |
| ## 202 | -7.634917e-03 | -0.015384582 | 0.0113076082 |
| 0.0070841051 | | | |
| ## 203 | 3.606005e-04 | 0.012500073 | 0.0289564402 |
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| ## 204 | 0.000000e+00 | 0.000000000 | 0.0000000000 |
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| ## 205 | 2.155069e-02 | 0.006172751 | -0.0016717916 |
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| ## 206 | 2.566410e-02 | 0.015337451 | -0.0192575893 |
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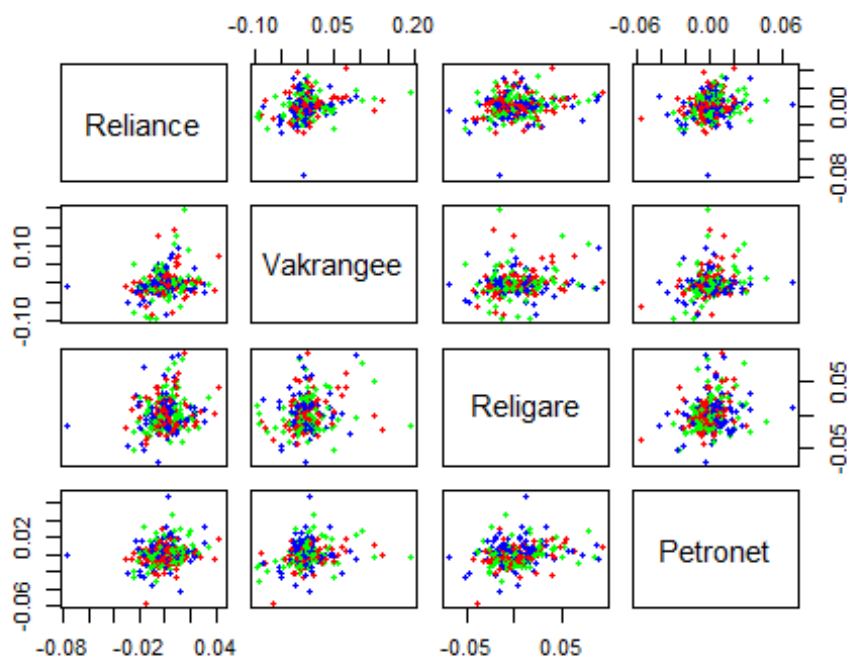
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| ## 207 | -1.030320e-02 | 0.000000000 | -0.0042686398 |
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| ## 216 | 2.043268e-02 | -0.020958145 | 0.0116924874 |
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| ## 217 | 8.492189e-03 | -0.012232487 | -0.0144466915 |
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| ## 220 | -3.095603e-02 | -0.009374992 | -0.0187332388 |
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| ## 221 | -2.022647e-02 | -0.012618307 | 0.0254545273 |
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| ## 222 | -6.431895e-04 | 0.012779563 | -0.0132978726 |
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| ## 223 | 1.625222e-02 | 0.000000000 | 0.0137765980 |
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| ## 224 | -9.302493e-03 | -0.006309122 | -0.0091580679 |
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| ## 225 | 1.004927e-02 | -0.003174622 | -0.0205724333 |
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| ## 226 | 8.465609e-03 | 0.003184732 | 0.0541856560 |
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| ## 228 | -1.068354e-02 | -0.022222224 | 0.0031117567 |
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| ## 229 | -4.202994e-03 | 0.003246707 | -0.0064862323 |
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| ## 230 | 1.359099e-02 | -0.016181194 | 0.0840193216 |
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| ## 231 | 5.698269e-03 | -0.016447398 | 0.0851008131 |
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| ## 232 | -6.022637e-03 | -0.020066940 | -0.0144787647 |
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| ## 233 | 6.597254e-03 | 0.102389065 | 0.0766405937 |
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| ## 234 | 4.455113e-03 | 0.065015553 | 0.0025016511 |
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| ## 235 | 4.218404e-03 | 0.014534968 | 0.0190563163 |
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| ## 236 | 1.181717e-02 | -0.060171978 | -0.0200356183 |
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| ## 237 | -8.147917e-04 | 0.006097535 | 0.0601999075 |
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| ## 240 | -1.091139e-02 | -0.024767700 | -0.0086532591 |
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| ## 241 | -2.381341e-04 | 0.003174558 | 0.0080573100 |
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| ## 247 | -9.502960e-04 | 0.016181259 | 0.0107550012 |
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| ## 251 | 5.351204e-03 | 0.012618233 | -0.0092267397 |
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| ## 252 | 2.104247e-03 | 0.003115327 | 0.0119733792 |
| | 0.0687322732 | | |
| ## 253 | 1.358772e-03 | 0.021739193 | -0.0015337029 |
| | 0.0065333035 | | |
| ## 254 | 6.661164e-03 | 0.000000000 | 0.0274303262 |
| | 0.0150101298 | | |
| ## 255 | 1.078349e-02 | 0.091185405 | 0.0890644616 |
| | -0.0043964469 | | |
| ## 256 | -1.444678e-02 | -0.064066960 | -0.0380466645 |
| | -0.0578081439 | | |

| | | | |
|--------|---------------|--------------|---------------|
| ## 257 | 5.002337e-03 | 0.014880953 | 0.0393475800 |
| | 0.0068172391 | | |
| ## 258 | 9.179739e-04 | 0.041055780 | 0.0333464111 |
| | 0.0325856830 | | |
| ## 259 | 1.854665e-03 | -0.005633803 | -0.0051253076 |
| | -0.0122950820 | | |
| ## 260 | -8.706856e-03 | -0.016997167 | -0.0085861481 |
| | -0.0112033071 | | |
| ## 261 | -2.228654e-02 | -0.020172911 | 0.0144341808 |
| | 0.0054553210 | | |
| ## 262 | -7.283275e-03 | -0.008823529 | 0.0030355456 |
| | -0.0073038395 | | |
| ## 263 | -4.165298e-03 | -0.005934718 | 0.0272365494 |
| | 0.0100903676 | | |
| ## 264 | -6.157243e-03 | -0.002985015 | -0.0684956429 |
| | -0.0035380062 | | |
| ## 265 | 8.759209e-04 | 0.017964011 | -0.0308361458 |
| | 0.0035505682 | | |
| ## 266 | 1.126997e-02 | 0.014705882 | 0.0089741467 |
| | -0.0072840791 | | |
| ## 267 | -1.469028e-02 | -0.005797101 | -0.0127350270 |
| | -0.0132075220 | | |
| ## 268 | 4.669852e-03 | 0.017492770 | -0.0102375104 |
| | 0.0195453192 | | |

Plotting the Pairwise Plot of the four stocks.

```
colnames(Portfolio_DailyRet)<-c("Reliance","Vakrangee","Religare","Petronet")
pairs(Portfolio_DailyRet,col=rainbow(3),pch=20)
```



Here, Portfolio's Daily Returns are randomly scattered around the zero line. This means that the model is doing a good job of predicting the dependent variable. There is no correlation as such here.

Summarizing the Data

```
# Summary of data
company <- c("Religare", "Vakrangee", "Petronet", "Reliance")

mean <- c(mean(religare_DailyRet), mean(vakrange_DailyRet),
mean(Petronet_DailyRet), mean(reliance_DailyRet))

median <- c(median(religare_DailyRet), median(vakrange_DailyRet),
median(Petronet_DailyRet), median(reliance_DailyRet))

variance <- c(var(religare_DailyRet), var(vakrange_DailyRet),
var(Petronet_DailyRet), var(reliance_DailyRet))

std <- c(sd(religare_DailyRet), sd(vakrange_DailyRet), sd(Petronet_DailyRet),
sd(reliance_DailyRet))

skewness <- c(skewness(religare_DailyRet), skewness(vakrange_DailyRet),
skewness(Petronet_DailyRet), skewness(reliance_DailyRet))
```

```

kurtosis <- c(kurtosis(religare_DailyRet), kurtosis(vakrange_DailyRet),
kurtosis(Petronet_DailyRet), kurtosis(reliance_DailyRet))

length(company)

## [1] 4

length(mean)

## [1] 4

length(median)

## [1] 4

length(mode)

## [1] 1

length(variance)

## [1] 4

length(std)

## [1] 4

length(skewness)

## [1] 4

length(kurtosis)

## [1] 4

# Create a list of lists for the companies
company_data <- data.frame(
  Company = company,
  Mean = mean,
  Median = median,
  Variance = variance,
  Std = std,
  Skewness = skewness,
  Kurtosis = kurtosis
)
company_data

##   Company      Mean      Median  Variance      Std  Skewness
## 1 Religare 0.0020211438 -0.0008411205 0.0006068444 0.02463421 0.9060030
## 2 Vakrange -0.0011593721 -0.0033734862 0.0011257755 0.03355258 1.3993590
## 3 Petronet 0.0005950191 0.0004508350 0.0001785301 0.01336152 0.2811224
## 4 Reliance -0.0002327066 -0.0001106463 0.0001637552 0.01279669 -0.4984238
##   Kurtosis
## 1 4.781606

```

```
## 2 9.780666
## 3 6.861599
## 4 8.008918
```

The mean stock price of Religare is 0.002021, while the mean stock price of Reliance is -0.000232. This means that the average stock price of Religare is about 9 times higher than the average stock price of Reliance.

Stock prices of some of the companies in the sample are more volatile than others. The variance of the stock price of Vakrangee is 0.000607, while the variance of the stock price of Reliance is 0.000164. This means that the stock price of Vakrangee is more volatile than the stock price of Reliance.

Distributions are also Skewed. Distribution of the stock price of Religare is skewed to the right, while the distribution of the stock price of Reliance is skewed to the left.

Calculating the mean daily return of the four-stock portfolio and annualized Result.

```
w=matrix(c(0.25,0.25,0.25,0.25),byrow=FALSE)
```

```
meanMatrix<-matrix(mean,byrow = FALSE)
portfolio_returns=t(w)%*%meanMatrix
portfolio_returns
```

```
##           [,1]
## [1,] 0.0003060211
```

```
VCM<-cov(Portfolio_DailyRet)
portfolio_risk=sqrt((t(w)%*%VCM)%*%w)
portfolio_risk
```

```
##           [,1]
## [1,] 0.01396109
```

```
annualize_rp=(1+portfolio_returns)^267-1
annualize_rp
```

```
##           [,1]
## [1,] 0.08512493
```

```
annualize_risk=portfolio_risk*sqrt(267)
annualize_risk
```

```
##           [,1]
## [1,] 0.2281261
```

Daily Portfolio return is 0.03% which is good, while Daily portfolio risk is 1.3%.

Annualized Portfolio Return is around 8.5%

Annualized Portfolio Risk is Around 22%

Results suggest that the portfolio has a moderate risk and a moderate return. The annualized return is higher than the risk-free rate of return, which is typically around 2%. However, the annualized risk is also higher than the risk-free rate of return. Overall, the results suggest that the portfolio is a good investment for investors who are willing to take on some risk in order to achieve a higher return.

CONCLUSION

Portfolio analysis is an indispensable part of investment management and should be undertaken periodically to identify and improvise any deviation observed against the investment objective. In this analysis the portfolio is well-diversified across different asset classes and sectors. This helps to reduce the overall risk of the portfolio. While stock prices of some of the companies in the sample are more volatile than others, like Vakrangee (variance = 0.000607). Some show skewed Distribution and even Daily mean negative returns like Reliance Industries.

While annual Return is 8.5% and annual risk is around 22% which is higher, but still it's a good diverse portfolio to invest into if some risk is taken to achieve a higher return. Overall, this analysis demonstrates the key steps in calculating returns, assessing relationships between assets, and determining portfolio-level statistics. The results provide quantitative evidence to support investment decisions regarding asset selection and weights to align with risk-return preferences. More complex portfolio optimization techniques could be applied to this foundation. Additional research on optimal diversification strategies is warranted, particularly with a larger basket of assets