

In [3]:

```
import threading
import pandas as pd
import pandas_datareader.data as web
import datetime
from sklearn import linear_model
from time import sleep
import joblib
```

In [2]:

```
pip install pandas_datareader
```

```
Collecting pandas_datareader
  Downloading pandas_datareader-0.10.0-py3-none-any.whl (109 kB)
----- 109.5/109.5 kB 6.2 MB/s eta 0:00:00
Requirement already satisfied: requests>=2.19.0 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas_datareader) (2.28.1)
Requirement already satisfied: pandas>=0.23 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas_datareader) (1.3.4)
Requirement already satisfied: lxml in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas_datareader) (4.6.3)
Requirement already satisfied: pytz>=2017.3 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas>=0.23->pandas_datareader) (2022.7)
Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas>=0.23->pandas_datareader) (2.8.2)
Requirement already satisfied: numpy>=1.17.3 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from pandas>=0.23->pandas_datareader) (1.23.5)
Requirement already satisfied: idna<4,>=2.5 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from requests>=2.19.0->pandas_datareader) (3.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from requests>=2.19.0->pandas_datareader) (2022.12.7)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from requests>=2.19.0->pandas_datareader) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from requests>=2.19.0->pandas_datareader) (1.26.14)
Requirement already satisfied: six>=1.5 in c:\users\lipsa priyadarsinee\.jupyter\lab\anaconda\lib\site-packages (from python-dateutil>=2.7.3->pandas>=0.23->pandas_datareader) (1.16.0)
Installing collected packages: pandas_datareader
Successfully installed pandas_datareader-0.10.0
Note: you may need to restart the kernel to use updated packages.
```

In [4]:

```
class bcolors:
    HEADER = '\033[95m'
```

```
OKBLUE = '\033[94m'
OKCYAN = '\033[96m'
OKGREEN = '\033[92m'
WARNING = '\033[93m'
FAIL = '\033[91m'
ENDC = '\033[0m'
BOLD = '\033[1m'
UNDERLINE = '\033[4m'
```

```
In [5]: # This function will give the price after the delay of sleep_time units of seconds
def getprice(label="WIPRO.NS", sleep_time=1):
    # Pause for sleep_time number of seconds
    sleep(sleep_time)
    # Using yahoo finance to get the stock market live data
    quote = web.get_quote_yahoo(label)
    price = quote["price"].values[0]
    current_time = datetime.datetime.now()
    return tuple([price, current_time])
```

```
In [6]: # This function trains the model using the input data(dataframe)
def train(input):
    print("\nModel updating...", end=" ")
    # We take last column of the features as target and rest are taken as attributes
    featureMat = input.iloc[:, : len(input.columns) - 1]
    label = input[input.columns[-1]]
    # Here we are using linear regression model
    model = linear_model.LinearRegression()
    model.fit(featureMat, label)
    # Model is being written on the hard drive
    joblib.dump(model, "modelLR.pkl")
    print("[Completed]")
```

```
In [7]: number_of_features = 5 # This indicates how many columns the dataframe will have.
training_record_criterian = 5 # This decides how frequently the model will update [5 new features -> retrain the model]
number_of_predictions = 3 # Tells how many prediction in series you want
```

```
In [ ]: data = pd.DataFrame(columns=range(number_of_features)) # creating an empty dataframe
predict_input = list()
```

```

while 1:

    feature = list() # stores the features for a single record for dataframe

    for i in range(number_of_features):

        price = getprice()[0]
        feature.append(price)
        predict_input.append(price)

        try: # this will throw exception in two cases:
            # 1> model is not yet trained and saved
            # 2> model prediction is not working.

            first_predict = True # flag for detecting the first prediction in predicted series
            model = joblib.load("modelLR.pkl") # trying to open the saved model (can throw exception)
            print("")
            inputlist = predict_input.copy() # copying the list to make the prediction if model is ready
            # printing latest 3 prices
            for feature_value in inputlist[-(3):]:
                print(f"{bcolors.WARNING} --> ", int(feature_value * 100) / 100, end=" ")
            # taking the latest price
            price = getprice(sleep_time=0)[0]
            # Starting the predictions
            for i in range(number_of_predictions):
                pre_price = model.predict([inputlist[-(number_of_features - 1):]])
                # printing the predicted values one by one in the series
                print(f"{bcolors.OKBLUE} --> ", int(pre_price[0] * 100) / 100, end=" ")
                # This block will only run for the first prediction in series
                if first_predict:
                    # When prediction tells about increase in price
                    if pre_price[0] - inputlist[-1] > 0:
                        print(f"{bcolors.OKGREEN} \u2191", end="")
                        # Calculating the % of increase the program predicts and printing.
                        print(f"{bcolors.BOLD}[", int((pre_price[0] - price) * 1000000 / price) / 10000, "%] ", end=" ")
                        print(f"{bcolors.OKCYAN} Actual: ", price, end="")
                    # When prediction says that no change will happen
                    elif pre_price[0] - inputlist[-1] == 0:
                        print(f"{bcolors.HEADER} \u2022", end="")
                        print(f"{bcolors.BOLD}[", int((pre_price[0] - price) * 1000000 / price) / 10000, "%] ", end=" ")
                        print(f"{bcolors.OKCYAN} Actual: ", price, end="")
                    # When prediction is about decrease in price
                    else:
                        print(f"{bcolors.FAIL} \u2193", end="")
                        print(f"{bcolors.BOLD}[", int(-(pre_price[0] - price) * 1000000 / price) / 10000, "%] ",

```

```
        end=" ")
    print(f"\{bcolors.OKCYAN} Actual: ", price, end="")
# Next statement talk about what happened actually
if price - inputlist[-1] > 0:
    print(f"\{bcolors.OKGREEN} \u2191", end=" ")
elif price - inputlist[-1] == 0:
    print(f"\{bcolors.HEADER} \u2022", end="")
else:
    print(f"\{bcolors.FAIL} \u2193", end=" ")

first_predict = False

# pushing the predicted price in the back of the input array..
# it will be used in predicting next element in the series
inputlist.append(pre_price[0])
except:
    print("Please Wait while the model is getting ready...")
# Adding the feature in the dataframe
data.loc[len(data.index)] = feature
# If number of elements present in the dataframe is multiple of training record criterian, the retraining
if len(data.index) % training_record_criterian == 0:
    # print(data)
    # training in separate thread
    trainer = threading.Thread(target=train, args=(data,))
    trainer.start()
```

Please Wait while the model is getting ready...  
Please Wait while the model is getting ready...

Model updating... [Completed]

```
--> 397.45 --> 397.45 --> 397.5 --> 397.52 ↑[ 0.0064 %] Actual: 397.5 • --> 397.52 --> 397.53
--> 397.45 --> 397.5 --> 397.45 --> 397.46 ↑[ 0.0027 %] Actual: 397.45 • --> 397.5 --> 397.54
--> 397.5 --> 397.45 --> 397.45 --> 397.49 ↑[ 0.0493 %] Actual: 397.3 ↓ --> 397.53 --> 397.54
--> 397.45 --> 397.45 --> 397.4 --> 397.45 ↑[ 0.0128 %] Actual: 397.4 • --> 397.5 --> 397.51
--> 397.45 --> 397.4 --> 397.4 --> 397.45 ↑[ 0.014 %] Actual: 397.4 • --> 397.49 --> 397.48
--> 397.4 --> 397.4 --> 397.4 --> 397.44 ↑[ 0.0101 %] Actual: 397.4 • --> 397.46 --> 397.46
--> 397.4 --> 397.4 --> 397.45 --> 397.47 ↑[ 0.005 %] Actual: 397.45 • --> 397.46 --> 397.47
--> 397.4 --> 397.45 --> 397.45 --> 397.45 • [-0.0125 %] Actual: 397.5 ↑ --> 397.46 --> 397.49
--> 397.45 --> 397.45 --> 397.5 --> 397.51 ↑[ 0.0026 %] Actual: 397.5 • --> 397.51 --> 397.53
--> 397.45 --> 397.5 --> 397.5 --> 397.5 ↑[ -0.0111 %] Actual: 397.55 ↑ --> 397.52 --> 397.55
--> 397.5 --> 397.5 --> 397.7 --> 397.7 ↑[ 0.0002 %] Actual: 397.7 • --> 397.63 --> 397.64
--> 397.5 --> 397.7 --> 397.65 --> 397.59 ↓[ -0.0356 %] Actual: 397.45 ↓ --> 397.62 --> 397.71
--> 397.7 --> 397.65 --> 397.65 --> 397.67 ↑[ 0.0058 %] Actual: 397.65 • --> 397.73 --> 397.77
--> 397.65 --> 397.65 --> 397.45 --> 397.53 ↑[ 0.0224 %] Actual: 397.45 • --> 397.68 --> 397.71
--> 397.65 --> 397.45 --> 397.45 --> 397.6 ↑[ 0.0387 %] Actual: 397.45 • --> 397.68 --> 397.62
--> 397.45 --> 397.45 --> 397.45 --> 397.54 ↑[ 0.0232 %] Actual: 397.45 • --> 397.56 --> 397.54
--> 397.45 --> 397.45 --> 397.35 --> 397.39 ↑[ 0.0102 %] Actual: 397.35 • --> 397.46 --> 397.48
--> 397.45 --> 397.35 --> 397.4 --> 397.47 ↑[ 0.019 %] Actual: 397.4 • --> 397.49 --> 397.46
--> 397.35 --> 397.4 --> 397.3 --> 397.33 ↑[ 0.0088 %] Actual: 397.3 • --> 397.39 --> 397.41
--> 397.4 --> 397.3 --> 397.3 --> 397.35 ↑[ 0.015 %] Actual: 397.3 • --> 397.39 --> 397.37
--> 397.3 --> 397.3 --> 397.35 --> 397.38 ↑[ 0.035 %] Actual: 397.25 ↓ --> 397.37 --> 397.35
--> 397.3 --> 397.35 --> 397.35 --> 397.33 ↓[ 0.0029 %] Actual: 397.35 • --> 397.34 --> 397.36
--> 397.35 --> 397.35 --> 397.35 --> 397.35 ↑[ 0.0009 %] Actual: 397.35 • --> 397.37 --> 397.38
--> 397.35 --> 397.35 --> 397.35 --> 397.36 ↑[ 0.0048 %] Actual: 397.35 • --> 397.38 --> 397.39
--> 397.35 --> 397.35 --> 397.55 --> 397.54 ↓[ 0.0001 %] Actual: 397.55 • --> 397.46 --> 397.45
```

Model updating... [Completed]

```
--> 397.35 --> 397.55 --> 397.55 --> 397.4 ↓[ 0.0361 %] Actual: 397.55 • --> 397.34 --> 397.52
--> 397.55 --> 397.55 --> 397.45 --> 397.4 ↓[ 0.0358 %] Actual: 397.55 ↑ --> 397.55 --> 397.74
--> 397.55 --> 397.45 --> 397.45 --> 397.61 ↑[ 0.0035 %] Actual: 397.6 ↑ --> 397.77 --> 397.74
--> 397.45 --> 397.45 --> 397.55 --> 397.68 ↑[ 0.0337 %] Actual: 397.55 • --> 397.7 --> 397.62
--> 397.45 --> 397.55 --> 397.3 --> 397.16 ↓[ 0.0348 %] Actual: 397.3 • --> 397.36 --> 397.7
--> 397.55 --> 397.3 --> 397.3 --> 397.56 ↑[ 0.0163 %] Actual: 397.5 ↑ --> 397.79 --> 397.68
--> 397.3 --> 397.3 --> 397.5 --> 397.7 ↑[ 0.0644 %] Actual: 397.45 ↓ --> 397.63 --> 397.41
```

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--> 397.3 --> 397.5 --> 397.55 --> 397.41 ↓[ 0.033 %] Actual: 397.55 • --> 397.3 --> 397.43
--> 397.5 --> 397.55 --> 397.55 --> 397.49 ↓[ 0.0139 %] Actual: 397.55 • --> 397.52 --> 397.66
--> 397.55 --> 397.55 --> 397.5 --> 397.53 ↑[ -0.0041 %] Actual: 397.55 ↑ --> 397.66 --> 397.77
--> 397.55 --> 397.5 --> 397.5 --> 397.61 ↑[ 0.0171 %] Actual: 397.55 ↑ --> 397.74 --> 397.75
--> 397.5 --> 397.5 --> 397.55 --> 397.65 ↑[ 0.0259 %] Actual: 397.55 • --> 397.71 --> 397.69
--> 397.5 --> 397.55 --> 397.55 --> 397.56 ↑[ 0.0046 %] Actual: 397.55 • --> 397.63 --> 397.71
--> 397.55 --> 397.55 --> 397.6 --> 397.67 ↑[ 0.0187 %] Actual: 397.6 • --> 397.73 --> 397.74
--> 397.55 --> 397.6 --> 397.3 --> 397.2 ↓[ 0.0243 %] Actual: 397.3 • --> 397.5 --> 397.85
--> 397.6 --> 397.3 --> 397.45 --> 397.84 ↑[ 0.1004 %] Actual: 397.45 • --> 398.01 --> 397.72
--> 397.3 --> 397.45 --> 397.45 --> 397.45 ↑[ 0.0011 %] Actual: 397.45 • --> 397.45 --> 397.51
--> 397.45 --> 397.45 --> 397.45 --> 397.45 ↑[ 0.0001 %] Actual: 397.45 • --> 397.5 --> 397.58
--> 397.45 --> 397.45 --> 397.45 --> 397.5 ↑[ -0.011 %] Actual: 397.55 ↑ --> 397.58 --> 397.62
--> 397.45 --> 397.45 --> 397.55 --> 397.64 ↑[ 0.0244 %] Actual: 397.55 • --> 397.65 --> 397.59
--> 397.45 --> 397.55 --> 397.55 --> 397.51 ↓[ 0.0089 %] Actual: 397.55 • --> 397.53 --> 397.64
--> 397.55 --> 397.55 --> 397.55 --> 397.58 ↑[ 0.0089 %] Actual: 397.55 • --> 397.67 --> 397.74
--> 397.55 --> 397.55 --> 397.6 --> 397.69 ↑[ 0.0234 %] Actual: 397.6 • --> 397.75 --> 397.76
--> 397.55 --> 397.6 --> 397.6 --> 397.62 ↑[ 0.0066 %] Actual: 397.6 • --> 397.69 --> 397.78
--> 397.6 --> 397.6 --> 397.6 --> 397.66 ↑[ -0.022 %] Actual: 397.75 ↑ --> 397.76 --> 397.83

```

Model updating... [Completed]

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--> 397.6 --> 397.6 --> 397.55 --> 397.53 ↓[ 0.0036 %] Actual: 397.55 • --> 397.49 --> 397.46
--> 397.6 --> 397.55 --> 397.6 --> 397.5 ↓[ 0.0234 %] Actual: 397.6 • --> 397.51 --> 397.46
--> 397.55 --> 397.6 --> 397.55 --> 397.52 ↓[ 0.0179 %] Actual: 397.6 ↑ --> 397.5 --> 397.46
--> 397.6 --> 397.55 --> 397.55 --> 397.5 ↓[ 0.011 %] Actual: 397.55 • --> 397.47 --> 397.44
--> 397.55 --> 397.55 --> 397.7 --> 397.52 ↓[ 0.0447 %] Actual: 397.7 • --> 397.61 --> 397.51
--> 397.55 --> 397.7 --> 397.6 --> 397.62 ↑[ 0.0072 %] Actual: 397.6 • --> 397.57 --> 397.54
--> 397.7 --> 397.6 --> 397.55 --> 397.55 ↑[ 0.0023 %] Actual: 397.55 • --> 397.47 --> 397.48
--> 397.6 --> 397.55 --> 397.6 --> 397.48 ↓[ 0.0286 %] Actual: 397.6 • --> 397.51 --> 397.44
--> 397.55 --> 397.6 --> 397.6 --> 397.53 ↓[ 0.0152 %] Actual: 397.6 • --> 397.54 --> 397.48
--> 397.6 --> 397.6 --> 397.75 --> 397.58 ↓[ 0.0025 %] Actual: 397.6 ↓ --> 397.66 --> 397.57
--> 397.6 --> 397.75 --> 397.75 --> 397.69 ↓[ -0.0246 %] Actual: 397.6 ↓ --> 397.7 --> 397.63
--> 397.75 --> 397.75 --> 397.75 --> 397.71 ↓[ 0.0078 %] Actual: 397.75 • --> 397.68 --> 397.64
--> 397.75 --> 397.75 --> 397.75 --> 397.68 ↓[ 0.0156 %] Actual: 397.75 • --> 397.67 --> 397.62
--> 397.75 --> 397.75 --> 397.7 --> 397.67 ↓[ 0.0058 %] Actual: 397.7 • --> 397.63 --> 397.59
--> 397.75 --> 397.7 --> 397.8 --> 397.65 ↓[ 0.0353 %] Actual: 397.8 • --> 397.7 --> 397.62
--> 397.7 --> 397.8 --> 397.8 --> 397.73 ↓[ 0.0172 %] Actual: 397.8 • --> 397.74 --> 397.66
--> 397.8 --> 397.8 --> 397.75 --> 397.74 ↓[ 0.0013 %] Actual: 397.75 • --> 397.68 --> 397.65
--> 397.8 --> 397.75 --> 397.8 --> 397.69 ↓[ 0.0263 %] Actual: 397.8 • --> 397.7 --> 397.64
--> 397.75 --> 397.8 --> 397.75 --> 397.71 ↓[ 0.0208 %] Actual: 397.8 ↑ --> 397.68 --> 397.63
--> 397.8 --> 397.75 --> 397.8 --> 397.7 ↓[ 0.0237 %] Actual: 397.8 • --> 397.7 --> 397.65
--> 397.75 --> 397.8 --> 397.8 --> 397.72 ↓[ 0.018 %] Actual: 397.8 • --> 397.72 --> 397.66
--> 397.8 --> 397.8 --> 397.8 --> 397.74 ↓[ 0.0137 %] Actual: 397.8 • --> 397.72 --> 397.67
--> 397.8 --> 397.8 --> 397.8 --> 397.73 ↓[ 0.0163 %] Actual: 397.8 • --> 397.72 --> 397.66
--> 397.8 --> 397.8 --> 397.9 --> 397.75 ↓[ 0.0359 %] Actual: 397.9 • --> 397.8 --> 397.71
--> 397.8 --> 397.9 --> 397.9 --> 397.83 ↓[ 0.016 %] Actual: 397.9 • --> 397.83 --> 397.76

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Model updating... [Completed]

--> 397.9 --> 397.9 --> 397.95 --> 397.95 ↑[ 0.0145 %] Actual: 397.9 ↓ --> 397.96 --> 397.99  
--> 397.9 --> 397.95 --> 398.15 --> 398.05 ↓[ 0.0363 %] Actual: 398.2 ↑ --> 398.1 --> 398.15  
--> 397.95 --> 398.15 --> 398.2 --> 398.17 ↓[ 0.0074 %] Actual: 398.2 • --> 398.23 --> 398.25  
--> 398.15 --> 398.2 --> 398.15 --> 398.22 ↑[ 0.0195 %] Actual: 398.15 • --> 398.23 --> 398.25  
--> 398.2 --> 398.15 --> 398.15 --> 398.2 ↑[ 0.0135 %] Actual: 398.15 • --> 398.2 --> 398.23  
--> 398.15 --> 398.15 --> 398.15 --> 398.18 ↑[ -0.017 %] Actual: 398.25 ↑ --> 398.2 --> 398.22  
--> 398.15 --> 398.15 --> 398.25 --> 398.23 ↓[ 0.0045 %] Actual: 398.25 • --> 398.26 --> 398.3  
--> 398.15 --> 398.25 --> 398.3 --> 398.29 ↓[ 0.0019 %] Actual: 398.3 • --> 398.34 --> 398.36  
--> 398.25 --> 398.3 --> 398.2 --> 398.29 ↑[ 0.0 %] Actual: 398.3 ↑ --> 398.31 --> 398.31  
--> 398.3 --> 398.2 --> 398.2 --> 398.26 ↑[ -0.0081 %] Actual: 398.3 ↑ --> 398.25 --> 398.29  
--> 398.2 --> 398.2 --> 398.2 --> 398.22 ↑[ 0.0073 %] Actual: 398.2 • --> 398.25 --> 398.27  
--> 398.2 --> 398.2 --> 398.2 --> 398.23 ↑[ 0.01 %] Actual: 398.2 • --> 398.25 --> 398.28  
--> 398.2 --> 398.2 --> 398.15 --> 398.21 ↑[ 0.017 %] Actual: 398.15 • --> 398.22 --> 398.24  
--> 398.2 --> 398.15 --> 398.25 --> 398.24 ↓[ 0.0017 %] Actual: 398.25 • --> 398.26 --> 398.3  
--> 398.15 --> 398.25 --> 398.2 --> 398.24 ↑[ -0.0269 %] Actual: 398.35 ↑ --> 398.28 --> 398.28  
--> 398.25 --> 398.2 --> 398.35 --> 398.32 ↓[ 0.0054 %] Actual: 398.35 • --> 398.34 --> 398.4  
--> 398.2 --> 398.35 --> 398.3 --> 398.33 ↑[ 0.0091 %] Actual: 398.3 • --> 398.38 --> 398.39  
--> 398.35 --> 398.3 --> 398.2 --> 398.32 ↑[ 0.0069 %] Actual: 398.3 ↑ --> 398.31 --> 398.32  
--> 398.3 --> 398.2 --> 398.4 --> 398.34 ↓[ 0.0136 %] Actual: 398.4 • --> 398.37 --> 398.43  
--> 398.2 --> 398.4 --> 398.4 --> 398.39 ↓[ 0.0012 %] Actual: 398.4 • --> 398.46 --> 398.47  
--> 398.4 --> 398.4 --> 398.4 --> 398.47 ↑[ 0.0303 %] Actual: 398.35 ↓ --> 398.48 --> 398.51  
--> 398.4 --> 398.4 --> 398.6 --> 398.53 ↓[ 0.0153 %] Actual: 398.6 • --> 398.58 --> 398.65  
--> 398.4 --> 398.6 --> 398.6 --> 398.61 ↑[ -0.0212 %] Actual: 398.7 ↑ --> 398.68 --> 398.7  
--> 398.6 --> 398.6 --> 398.7 --> 398.72 ↑[ 0.0063 %] Actual: 398.7 • --> 398.75 --> 398.8  
--> 398.6 --> 398.7 --> 398.65 --> 398.72 ↑[ 0.0176 %] Actual: 398.65 • --> 398.76 --> 398.78

Model updating... [Completed]

--> 398.7 --> 398.65 --> 398.7 --> 398.71 ↑[ 0.0164 %] Actual: 398.65 ↓ --> 398.72 --> 398.74  
--> 398.65 --> 398.7 --> 398.7 --> 398.71 ↑[ 0.0049 %] Actual: 398.7 • --> 398.73 --> 398.75  
--> 398.7 --> 398.7 --> 398.65 --> 398.7 ↑[ 0.0128 %] Actual: 398.65 • --> 398.72 --> 398.73  
--> 398.7 --> 398.65 --> 398.65 --> 398.69 ↑[ 0.0116 %] Actual: 398.65 • --> 398.7 --> 398.72  
--> 398.65 --> 398.65 --> 398.6 --> 398.65 ↑[ 0.0144 %] Actual: 398.6 • --> 398.67 --> 398.68  
--> 398.65 --> 398.6 --> 398.55 --> 398.61 ↑[ 0.0171 %] Actual: 398.55 • --> 398.63 --> 398.63  
--> 398.6 --> 398.55 --> 398.55 --> 398.59 ↑[ 0.012 %] Actual: 398.55 • --> 398.6 --> 398.61  
--> 398.55 --> 398.55 --> 398.6 --> 398.6 ↑[ 0.0021 %] Actual: 398.6 • --> 398.61 --> 398.63  
--> 398.55 --> 398.6 --> 398.65 --> 398.64 ↓[ 0.0024 %] Actual: 398.65 • --> 398.65 --> 398.67  
--> 398.6 --> 398.65 --> 398.65 --> 398.66 ↑[ 0.0026 %] Actual: 398.65 • --> 398.68 --> 398.69  
--> 398.65 --> 398.65 --> 398.45 --> 398.56 ↑[ 0.03 %] Actual: 398.45 • --> 398.6 --> 398.59  
--> 398.65 --> 398.45 --> 398.45 --> 398.53 ↑[ 0.0224 %] Actual: 398.45 • --> 398.53 --> 398.53  
--> 398.45 --> 398.45 --> 398.35 --> 398.43 ↑[ -0.0032 %] Actual: 398.45 ↑ --> 398.45 --> 398.44  
--> 398.45 --> 398.35 --> 398.3 --> 398.37 ↑[ 0.0195 %] Actual: 398.3 • --> 398.38 --> 398.38  
--> 398.35 --> 398.3 --> 398.55 --> 398.47 ↓[ 0.0178 %] Actual: 398.55 • --> 398.46 --> 398.5  
--> 398.3 --> 398.55 --> 398.55 --> 398.5 ↓[ -0.0004 %] Actual: 398.5 ↓ --> 398.53 --> 398.56

--> 398.55 --> 398.55 --> 398.55 --> 398.55 ↑[ 0.0147 %] Actual: 398.5 ↓ --> 398.58 --> 398.59  
--> 398.55 --> 398.55 --> 398.55 --> 398.57 ↑[ 0.007 %] Actual: 398.55 • --> 398.59 --> 398.6  
--> 398.55 --> 398.55 --> 398.6 --> 398.6 ↑[ 0.0011 %] Actual: 398.6 • --> 398.61 --> 398.63  
--> 398.55 --> 398.6 --> 398.6 --> 398.61 ↑[ 0.0033 %] Actual: 398.6 • --> 398.63 --> 398.64  
--> 398.6 --> 398.6 --> 398.6 --> 398.62 ↑[ 0.0063 %] Actual: 398.6 • --> 398.64 --> 398.65  
--> 398.6 --> 398.6 --> 398.6 --> 398.62 ↑[ 0.0073 %] Actual: 398.6 • --> 398.64 --> 398.65  
--> 398.6 --> 398.6 --> 398.55 --> 398.6 ↑[ 0.0131 %] Actual: 398.55 • --> 398.62 --> 398.62  
--> 398.6 --> 398.55 --> 398.5 --> 398.56 ↑[ 0.0168 %] Actual: 398.5 • --> 398.58 --> 398.58  
--> 398.55 --> 398.5 --> 398.35 --> 398.46 ↑[ 0.0291 %] Actual: 398.35 • --> 398.48 --> 398.47

Model updating... [Completed]

--> 398.5 --> 398.35 --> 398.35 --> 398.41 ↑[ 0.0659 %] Actual: 398.15 ↓ --> 398.39 --> 398.38  
--> 398.35 --> 398.35 --> 398.15 --> 398.24 ↑[ 0.0246 %] Actual: 398.15 • --> 398.28 --> 398.24  
--> 398.35 --> 398.15 --> 398.1 --> 398.2 ↑[ 0.0252 %] Actual: 398.1 • --> 398.18 --> 398.15  
--> 398.15 --> 398.1 --> 398.1 --> 398.12 ↑[ -0.0056 %] Actual: 398.15 ↑ --> 398.12 --> 398.11  
--> 398.1 --> 398.1 --> 398.15 --> 398.13 ↓[ 0.0042 %] Actual: 398.15 • --> 398.12 --> 398.13  
--> 398.1 --> 398.15 --> 398.2 --> 398.16 ↓[ 0.0216 %] Actual: 398.25 ↑ --> 398.16 --> 398.18  
--> 398.15 --> 398.2 --> 398.2 --> 398.18 ↓[ 0.0038 %] Actual: 398.2 • --> 398.19 --> 398.2  
--> 398.2 --> 398.2 --> 398.25 --> 398.23 ↓[ 0.0047 %] Actual: 398.25 • --> 398.22 --> 398.23  
--> 398.2 --> 398.25 --> 398.25 --> 398.23 ↓[ 0.0033 %] Actual: 398.25 • --> 398.24 --> 398.25  
--> 398.25 --> 398.25 --> 398.3 --> 398.28 ↓[ 0.0046 %] Actual: 398.3 • --> 398.27 --> 398.28  
--> 398.25 --> 398.3 --> 398.45 --> 398.37 ↓[ 0.0199 %] Actual: 398.45 • --> 398.35 --> 398.39  
--> 398.3 --> 398.45 --> 398.5 --> 398.42 ↓[ 0.0181 %] Actual: 398.5 • --> 398.44 --> 398.46  
--> 398.45 --> 398.5 --> 398.45 --> 398.45 ↑[ 0.0016 %] Actual: 398.45 • --> 398.47 --> 398.47  
--> 398.5 --> 398.45 --> 398.45 --> 398.47 ↑[ 0.0059 %] Actual: 398.45 • --> 398.47 --> 398.47  
--> 398.45 --> 398.45 --> 398.45 --> 398.45 ↑[ -0.0231 %] Actual: 398.55 ↑ --> 398.46 --> 398.46  
--> 398.45 --> 398.45 --> 398.6 --> 398.54 ↓[ 0.015 %] Actual: 398.6 • --> 398.51 --> 398.55  
--> 398.45 --> 398.6 --> 398.65 --> 398.57 ↓[ 0.0175 %] Actual: 398.65 • --> 398.59 --> 398.62  
--> 398.6 --> 398.65 --> 398.6 --> 398.6 ↑[ 0.0019 %] Actual: 398.6 • --> 398.62 --> 398.62  
--> 398.65 --> 398.6 --> 398.7 --> 398.68 ↓[ 0.0048 %] Actual: 398.7 • --> 398.66 --> 398.68  
--> 398.6 --> 398.7 --> 398.7 --> 398.67 ↓[ 0.0068 %] Actual: 398.7 • --> 398.69 --> 398.7  
--> 398.7 --> 398.7 --> 398.65 --> 398.67 ↑[ 0.0069 %] Actual: 398.65 • --> 398.69 --> 398.68  
--> 398.7 --> 398.65 --> 398.65 --> 398.67 ↑[ 0.0066 %] Actual: 398.65 • --> 398.67 --> 398.67  
--> 398.65 --> 398.65 --> 398.65 --> 398.65 ↑[ 0.0023 %] Actual: 398.65 • --> 398.66 --> 398.66  
--> 398.65 --> 398.65 --> 398.6 --> 398.62 ↑[ -0.005 %] Actual: 398.65 ↑ --> 398.64 --> 398.63  
--> 398.65 --> 398.6 --> 398.55 --> 398.59 ↑[ -0.0004 %] Actual: 398.6 ↑ --> 398.6 --> 398.59

Model updating... [Completed]

--> 398.6 --> 398.55 --> 398.55 --> 398.57 ↑[ -0.0185 %] Actual: 398.65 ↑ --> 398.57 --> 398.57  
--> 398.55 --> 398.55 --> 398.65 --> 398.61 ↓[ 0.0084 %] Actual: 398.65 • --> 398.6 --> 398.62  
--> 398.55 --> 398.65 --> 398.6 --> 398.59 ↓[ 0.0022 %] Actual: 398.6 • --> 398.61 --> 398.61  
--> 398.65 --> 398.6 --> 398.65 --> 398.64 ↓[ -0.0121 %] Actual: 398.6 ↓ --> 398.63 --> 398.64  
--> 398.6 --> 398.65 --> 398.65 --> 398.64 ↓[ 0.0023 %] Actual: 398.65 • --> 398.64 --> 398.65  
--> 398.65 --> 398.65 --> 398.65 --> 398.65 ↑[ 0.0009 %] Actual: 398.65 • --> 398.65 --> 398.66  
--> 398.65 --> 398.65 --> 398.6 --> 398.62 ↑[ 0.0193 %] Actual: 398.55 ↓ --> 398.63 --> 398.63

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--> 398.65 --> 398.6 --> 398.6 --> 398.62 ↑[ 0.006 %] Actual: 398.6 • --> 398.62 --> 398.62
--> 398.6 --> 398.6 --> 398.6 --> 398.6 ↑[ -0.0229 %] Actual: 398.7 ↑ --> 398.61 --> 398.61
--> 398.6 --> 398.6 --> 398.55 --> 398.57 ↑[ 0.0067 %] Actual: 398.55 • --> 398.58 --> 398.58
--> 398.6 --> 398.55 --> 398.7 --> 398.66 ↓[ 0.0097 %] Actual: 398.7 • --> 398.63 --> 398.65
--> 398.55 --> 398.7 --> 398.7 --> 398.65 ↓[ 0.0112 %] Actual: 398.7 • --> 398.67 --> 398.68
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0001 %] Actual: 398.7 • --> 398.7 --> 398.71
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0016 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0016 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.7 --> 398.7 --> 398.75 --> 398.73 ↓[ -0.0089 %] Actual: 398.7 ↓ --> 398.73 --> 398.74
--> 398.7 --> 398.75 --> 398.7 --> 398.7 ↑[ 0.0024 %] Actual: 398.7 • --> 398.72 --> 398.72
--> 398.75 --> 398.7 --> 398.7 --> 398.72 ↑[ 0.0055 %] Actual: 398.7 • --> 398.72 --> 398.72
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0147 %] Actual: 398.65 ↓ --> 398.71 --> 398.71
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0016 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0016 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.7 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0016 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.7 --> 398.75 --> 398.73 ↓[ 0.0035 %] Actual: 398.75 • --> 398.73 --> 398.74
--> 398.7 --> 398.75 --> 398.8 --> 398.76 ↓[ 0.008 %] Actual: 398.8 • --> 398.76 --> 398.78
--> 398.75 --> 398.8 --> 398.8 --> 398.78 ↓[ 0.0033 %] Actual: 398.8 • --> 398.79 --> 398.8

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Model updating... [Completed]

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--> 398.8 --> 398.8 --> 398.8 --> 398.8 ↑[ 0.0006 %] Actual: 398.8 • --> 398.8 --> 398.8
--> 398.8 --> 398.8 --> 398.8 --> 398.8 ↑[ -0.024 %] Actual: 398.9 ↑ --> 398.8 --> 398.8
--> 398.8 --> 398.8 --> 398.8 --> 398.8 ↑[ -0.024 %] Actual: 398.9 ↑ --> 398.8 --> 398.8
--> 398.8 --> 398.8 --> 398.9 --> 398.86 ↓[ 0.0092 %] Actual: 398.9 • --> 398.84 --> 398.86
--> 398.8 --> 398.9 --> 398.9 --> 398.86 ↓[ 0.0077 %] Actual: 398.9 • --> 398.88 --> 398.89
--> 398.9 --> 398.9 --> 398.9 --> 398.9 ↑[ 0.0004 %] Actual: 398.9 • --> 398.9 --> 398.9
--> 398.9 --> 398.9 --> 398.85 --> 398.87 ↑[ 0.0062 %] Actual: 398.85 • --> 398.88 --> 398.87
--> 398.9 --> 398.85 --> 398.6 --> 398.72 ↑[ 0.0312 %] Actual: 398.6 • --> 398.76 --> 398.71
--> 398.85 --> 398.6 --> 398.6 --> 398.69 ↑[ 0.0235 %] Actual: 398.6 • --> 398.66 --> 398.64
--> 398.6 --> 398.6 --> 398.4 --> 398.49 ↑[ 0.0233 %] Actual: 398.4 • --> 398.52 --> 398.49
--> 398.6 --> 398.4 --> 398.5 --> 398.53 ↑[ 0.0082 %] Actual: 398.5 • --> 398.49 --> 398.49
--> 398.4 --> 398.5 --> 398.5 --> 398.47 ↓[ 0.0066 %] Actual: 398.5 • --> 398.48 --> 398.49
--> 398.5 --> 398.5 --> 398.5 --> 398.5 ↑[ 0.0 %] Actual: 398.5 • --> 398.5 --> 398.5
--> 398.5 --> 398.5 --> 398.65 --> 398.59 ↓[ 0.0146 %] Actual: 398.65 • --> 398.56 --> 398.59
--> 398.5 --> 398.65 --> 398.65 --> 398.6 ↓[ 0.0124 %] Actual: 398.65 • --> 398.61 --> 398.63
--> 398.65 --> 398.65 --> 398.75 --> 398.7 ↓[ 0.0104 %] Actual: 398.75 • --> 398.69 --> 398.71
--> 398.65 --> 398.75 --> 398.8 --> 398.74 ↓[ 0.013 %] Actual: 398.8 • --> 398.75 --> 398.77
--> 398.75 --> 398.8 --> 398.75 --> 398.75 ↑[ 0.0009 %] Actual: 398.75 • --> 398.77 --> 398.76
--> 398.8 --> 398.75 --> 398.7 --> 398.74 ↑[ 0.0102 %] Actual: 398.7 • --> 398.74 --> 398.73
--> 398.75 --> 398.7 --> 398.5 --> 398.6 ↑[ 0.0263 %] Actual: 398.5 • --> 398.63 --> 398.59
--> 398.7 --> 398.5 --> 398.5 --> 398.57 ↑[ 0.0189 %] Actual: 398.5 • --> 398.55 --> 398.53
--> 398.5 --> 398.5 --> 398.55 --> 398.53 ↓[ 0.0028 %] Actual: 398.55 • --> 398.52 --> 398.53
--> 398.5 --> 398.55 --> 398.55 --> 398.53 ↓[ 0.0036 %] Actual: 398.55 • --> 398.54 --> 398.54
--> 398.55 --> 398.55 --> 398.55 --> 398.55 ↑[ 0.0004 %] Actual: 398.55 • --> 398.55 --> 398.55
--> 398.55 --> 398.55 --> 398.65 --> 398.61 ↓[ 0.0094 %] Actual: 398.65 • --> 398.59 --> 398.61

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Model updating... [Completed]

--> 398.55 --> 398.65 --> 398.65 --> 398.64 ↓[ 0.0001 %] Actual: 398.65 • --> 398.64 --> 398.63  
--> 398.65 --> 398.65 --> 398.55 --> 398.57 ↑[ 0.0066 %] Actual: 398.55 • --> 398.55 --> 398.56  
--> 398.65 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0021 %] Actual: 398.55 • --> 398.54 --> 398.53  
--> 398.55 --> 398.55 --> 398.55 --> 398.54 ↓[ -0.0248 %] Actual: 398.45 ↓ --> 398.54 --> 398.54  
--> 398.55 --> 398.55 --> 398.45 --> 398.47 ↑[ 0.0075 %] Actual: 398.45 • --> 398.46 --> 398.46  
--> 398.55 --> 398.45 --> 398.45 --> 398.44 ↓[ 0.0022 %] Actual: 398.45 • --> 398.44 --> 398.43  
--> 398.45 --> 398.45 --> 398.45 --> 398.44 ↓[ 0.0003 %] Actual: 398.45 • --> 398.44 --> 398.44  
--> 398.45 --> 398.45 --> 398.45 --> 398.44 ↓[ 0.0012 %] Actual: 398.45 • --> 398.44 --> 398.43  
--> 398.45 --> 398.45 --> 398.55 --> 398.51 ↓[ 0.0098 %] Actual: 398.55 • --> 398.52 --> 398.5  
--> 398.45 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0001 %] Actual: 398.55 • --> 398.54 --> 398.53  
--> 398.55 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.002 %] Actual: 398.55 • --> 398.53 --> 398.53  
--> 398.55 --> 398.55 --> 398.5 --> 398.51 ↑[ 0.0031 %] Actual: 398.5 • --> 398.5 --> 398.5  
--> 398.55 --> 398.5 --> 398.5 --> 398.49 ↓[ 0.0017 %] Actual: 398.5 • --> 398.49 --> 398.48  
--> 398.5 --> 398.5 --> 398.55 --> 398.52 ↓[ 0.005 %] Actual: 398.55 • --> 398.53 --> 398.52  
--> 398.5 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0006 %] Actual: 398.55 • --> 398.54 --> 398.53  
--> 398.55 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0016 %] Actual: 398.55 • --> 398.54 --> 398.53  
--> 398.55 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0011 %] Actual: 398.55 • --> 398.54 --> 398.53  
--> 398.55 --> 398.55 --> 398.6 --> 398.57 ↓[ 0.0055 %] Actual: 398.6 • --> 398.58 --> 398.57  
--> 398.55 --> 398.6 --> 398.6 --> 398.59 ↓[ 0.0006 %] Actual: 398.6 • --> 398.59 --> 398.58  
--> 398.6 --> 398.6 --> 398.7 --> 398.65 ↓[ 0.0102 %] Actual: 398.7 • --> 398.67 --> 398.65  
--> 398.6 --> 398.7 --> 398.6 --> 398.63 ↑[ 0.0085 %] Actual: 398.6 • --> 398.61 --> 398.61  
--> 398.7 --> 398.6 --> 398.6 --> 398.58 ↓[ 0.003 %] Actual: 398.6 • --> 398.59 --> 398.58  
--> 398.6 --> 398.6 --> 398.7 --> 398.66 ↓[ 0.0089 %] Actual: 398.7 • --> 398.67 --> 398.66  
--> 398.6 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0001 %] Actual: 398.7 • --> 398.69 --> 398.68  
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.002 %] Actual: 398.7 • --> 398.69 --> 398.68

Model updating... [Completed]

--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0005 %] Actual: 398.7 • --> 398.69 --> 398.69  
--> 398.7 --> 398.7 --> 398.65 --> 398.66 ↑[ 0.0036 %] Actual: 398.65 • --> 398.65 --> 398.65  
--> 398.7 --> 398.65 --> 398.7 --> 398.67 ↓[ 0.0056 %] Actual: 398.7 • --> 398.68 --> 398.67  
--> 398.65 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0002 %] Actual: 398.7 • --> 398.69 --> 398.69  
--> 398.7 --> 398.7 --> 398.65 --> 398.66 ↑[ 0.0035 %] Actual: 398.65 • --> 398.65 --> 398.65  
--> 398.7 --> 398.65 --> 398.7 --> 398.67 ↓[ 0.0056 %] Actual: 398.7 • --> 398.68 --> 398.67  
--> 398.65 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.0002 %] Actual: 398.7 • --> 398.69 --> 398.69  
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0006 %] Actual: 398.7 • --> 398.69 --> 398.69  
--> 398.7 --> 398.7 --> 398.85 --> 398.79 ↓[ 0.0132 %] Actual: 398.85 • --> 398.82 --> 398.8  
--> 398.7 --> 398.85 --> 398.7 --> 398.75 ↑[ 0.0145 %] Actual: 398.7 • --> 398.72 --> 398.73  
--> 398.85 --> 398.7 --> 398.7 --> 398.68 ↓[ 0.0031 %] Actual: 398.7 • --> 398.69 --> 398.68  
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0003 %] Actual: 398.7 • --> 398.69 --> 398.69  
--> 398.7 --> 398.7 --> 398.8 --> 398.76 ↓[ -0.016 %] Actual: 398.7 ↓ --> 398.78 --> 398.76  
--> 398.7 --> 398.8 --> 398.85 --> 398.83 ↓[ 0.0031 %] Actual: 398.85 • --> 398.84 --> 398.83  
--> 398.8 --> 398.85 --> 398.85 --> 398.85 ↑[ 0.0001 %] Actual: 398.85 • --> 398.84 --> 398.84  
--> 398.85 --> 398.85 --> 398.7 --> 398.74 ↑[ 0.0121 %] Actual: 398.7 • --> 398.72 --> 398.73

--> 398.85 --> 398.7 --> 398.8 --> 398.75 ↓[ 0.0114 %] Actual: 398.8 • --> 398.77 --> 398.76  
--> 398.7 --> 398.8 --> 398.8 --> 398.8 ↑[ 0.0012 %] Actual: 398.8 • --> 398.8 --> 398.8  
--> 398.8 --> 398.8 --> 398.8 --> 398.79 ↓[ 0.0006 %] Actual: 398.8 • --> 398.79 --> 398.79  
--> 398.8 --> 398.8 --> 398.75 --> 398.76 ↑[ -0.0088 %] Actual: 398.8 ↑ --> 398.75 --> 398.75  
--> 398.8 --> 398.75 --> 398.7 --> 398.71 ↑[ 0.0028 %] Actual: 398.7 • --> 398.7 --> 398.7  
--> 398.75 --> 398.7 --> 398.75 --> 398.72 ↓[ 0.0055 %] Actual: 398.75 • --> 398.73 --> 398.72  
--> 398.7 --> 398.75 --> 398.55 --> 398.61 ↑[ -0.0329 %] Actual: 398.75 ↑ --> 398.57 --> 398.59  
--> 398.75 --> 398.55 --> 398.7 --> 398.63 ↓[ 0.0166 %] Actual: 398.7 • --> 398.66 --> 398.64  
--> 398.55 --> 398.7 --> 398.7 --> 398.7 ↑[ 0.002 %] Actual: 398.7 • --> 398.7 --> 398.7

Model updating... [Completed]

--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ -0.036 %] Actual: 398.55 ↓ --> 398.68 --> 398.68  
--> 398.7 --> 398.7 --> 398.55 --> 398.59 ↑[ 0.0107 %] Actual: 398.55 • --> 398.57 --> 398.56  
--> 398.7 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0143 %] Actual: 398.6 ↑ --> 398.53 --> 398.53  
--> 398.55 --> 398.55 --> 398.75 --> 398.67 ↓[ 0.019 %] Actual: 398.75 • --> 398.69 --> 398.67  
--> 398.55 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0019 %] Actual: 398.75 • --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0014 %] Actual: 398.75 • --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0019 %] Actual: 398.75 • --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.8 --> 398.77 ↓[ 0.0061 %] Actual: 398.8 • --> 398.77 --> 398.76  
--> 398.75 --> 398.8 --> 398.8 --> 398.79 ↓[ 0.002 %] Actual: 398.8 • --> 398.78 --> 398.78  
--> 398.8 --> 398.8 --> 398.7 --> 398.72 ↑[ 0.0065 %] Actual: 398.7 • --> 398.7 --> 398.7  
--> 398.8 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0019 %] Actual: 398.7 • --> 398.68 --> 398.68  
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0147 %] Actual: 398.75 ↑ --> 398.68 --> 398.68  
--> 398.7 --> 398.7 --> 398.75 --> 398.72 ↓[ 0.0187 %] Actual: 398.8 ↑ --> 398.72 --> 398.71  
--> 398.7 --> 398.75 --> 398.8 --> 398.77 ↓[ 0.0061 %] Actual: 398.8 • --> 398.77 --> 398.76  
--> 398.75 --> 398.8 --> 398.75 --> 398.75 ↑[ -0.0102 %] Actual: 398.8 ↑ --> 398.74 --> 398.74  
--> 398.8 --> 398.75 --> 398.8 --> 398.77 ↓[ 0.006 %] Actual: 398.8 • --> 398.77 --> 398.76  
--> 398.75 --> 398.8 --> 398.75 --> 398.75 ↑[ 0.002 %] Actual: 398.75 • --> 398.74 --> 398.74  
--> 398.8 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0018 %] Actual: 398.75 • --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.002 %] Actual: 398.75 • --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.75 --> 398.74 ↓[ -0.0356 %] Actual: 398.6 ↓ --> 398.73 --> 398.73  
--> 398.75 --> 398.75 --> 398.5 --> 398.57 ↑[ 0.0191 %] Actual: 398.5 • --> 398.54 --> 398.54  
--> 398.75 --> 398.5 --> 398.5 --> 398.49 ↓[ 0.0018 %] Actual: 398.5 • --> 398.48 --> 398.48  
--> 398.5 --> 398.5 --> 398.7 --> 398.62 ↓[ 0.0193 %] Actual: 398.7 • --> 398.64 --> 398.62  
--> 398.5 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0019 %] Actual: 398.7 • --> 398.68 --> 398.68  
--> 398.7 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.0014 %] Actual: 398.7 • --> 398.68 --> 398.68

Model updating... [Completed]

--> 398.7 --> 398.7 --> 398.7 --> 398.68 ↓[ 0.0025 %] Actual: 398.7 • --> 398.68 --> 398.67  
--> 398.7 --> 398.7 --> 398.6 --> 398.61 ↑[ -0.0202 %] Actual: 398.7 ↑ --> 398.6 --> 398.6  
--> 398.7 --> 398.6 --> 398.6 --> 398.59 ↓[ 0.002 %] Actual: 398.6 • --> 398.58 --> 398.57  
--> 398.6 --> 398.6 --> 398.6 --> 398.59 ↓[ 0.0017 %] Actual: 398.6 • --> 398.58 --> 398.57  
--> 398.6 --> 398.6 --> 398.6 --> 398.59 ↓[ 0.0024 %] Actual: 398.6 • --> 398.58 --> 398.57  
--> 398.6 --> 398.6 --> 398.6 --> 398.59 ↓[ -0.0101 %] Actual: 398.55 ↓ --> 398.58 --> 398.57  
--> 398.6 --> 398.6 --> 398.55 --> 398.55 ↑[ 0.0012 %] Actual: 398.55 • --> 398.54 --> 398.53

```
--> 398.6 --> 398.55 --> 398.55 --> 398.54 ↓[ 0.0022 %] Actual: 398.55 • --> 398.53 --> 398.52
--> 398.55 --> 398.55 --> 398.6 --> 398.57 ↓[ 0.0057 %] Actual: 398.6 • --> 398.57 --> 398.56
--> 398.55 --> 398.6 --> 398.6 --> 398.58 ↓[ 0.0026 %] Actual: 398.6 • --> 398.58 --> 398.57
--> 398.6 --> 398.6 --> 398.6 --> 398.58 ↓[ 0.0027 %] Actual: 398.6 • --> 398.58 --> 398.57
--> 398.6 --> 398.6 --> 398.7 --> 398.66 ↓[ 0.0098 %] Actual: 398.7 • --> 398.66 --> 398.64
--> 398.6 --> 398.7 --> 398.8 --> 398.75 ↓[ 0.0102 %] Actual: 398.8 • --> 398.75 --> 398.74
--> 398.7 --> 398.8 --> 398.8 --> 398.78 ↓[ 0.0037 %] Actual: 398.8 • --> 398.77 --> 398.76
--> 398.8 --> 398.8 --> 398.75 --> 398.75 ↑[ 0.0003 %] Actual: 398.75 • --> 398.74 --> 398.73
--> 398.8 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0024 %] Actual: 398.75 • --> 398.73 --> 398.72
--> 398.75 --> 398.75 --> 398.75 --> 398.74 ↓[ 0.0022 %] Actual: 398.75 • --> 398.73 --> 398.72
--> 398.75 --> 398.75 --> 398.8 --> 398.77 ↓[ 0.0062 %] Actual: 398.8 • --> 398.77 --> 398.76
--> 398.75 --> 398.8 --> 398.85 --> 398.82 ↓[ 0.0065 %] Actual: 398.85 • --> 398.81 --> 398.8
--> 398.8 --> 398.85 --> 398.85 --> 398.83 ↓[ 0.0032 %] Actual: 398.85 • --> 398.82 --> 398.82
--> 398.85 --> 398.85 --> 398.85 --> 398.83 ↓[ 0.003 %] Actual: 398.85 • --> 398.83 --> 398.82
--> 398.85 --> 398.85 --> 398.7 --> 398.73 ↑[ 0.0083 %] Actual: 398.7 • --> 398.71 --> 398.71
--> 398.85 --> 398.7 --> 398.7 --> 398.69 ↓[ 0.002 %] Actual: 398.7 • --> 398.68 --> 398.67
--> 398.7 --> 398.7 --> 398.75 --> 398.72 ↓[ 0.0051 %] Actual: 398.75 • --> 398.72 --> 398.71
--> 398.7 --> 398.75 --> 398.75 --> 398.73 ↓[ 0.0027 %] Actual: 398.75 • --> 398.73 --> 398.72
```

Model updating... [Completed]

```
--> 398.75 --> 398.75 --> 398.75 --> 398.73 ↓[ 0.003 %] Actual: 398.75 • --> 398.73 --> 398.72
--> 398.75 --> 398.75 --> 398.8 --> 398.77 ↓[ -0.0065 %] Actual: 398.75 ↓ --> 398.77 --> 398.76
--> 398.75 --> 398.8 --> 398.75 --> 398.75 ↑[ 0.0009 %] Actual: 398.75 • --> 398.74 --> 398.73
--> 398.8 --> 398.75 --> 398.8 --> 398.77 ↓[ 0.0064 %] Actual: 398.8 • --> 398.77 --> 398.76
--> 398.75 --> 398.8 --> 398.8 --> 398.79 ↓[ 0.002 %] Actual: 398.8 • --> 398.78 --> 398.77
--> 398.8 --> 398.8 --> 398.8 --> 398.78 ↓[ 0.0031 %] Actual: 398.8 • --> 398.78 --> 398.77
--> 398.8 --> 398.8 --> 398.8 --> 398.79 ↓[ 0.0024 %] Actual: 398.8 • --> 398.78 --> 398.77
--> 398.8 --> 398.8 --> 398.8 --> 398.79 ↓[ 0.0024 %] Actual: 398.8 • --> 398.78 --> 398.77
--> 398.8 --> 398.8 --> 398.8 --> 398.79 ↓[ -0.01 %] Actual: 398.75 ↓ --> 398.78 --> 398.77
```

In [ ]: