Gold price prediction in India

Importing libraries

```
In [93]: import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
         import plotly.express as px
         import yfinance as yf
         from pandas import DataFrame
         import requests
         import re
         from datetime import datetime
         from sklearn.model selection import train test split
         from sklearn.preprocessing import StandardScaler
         from sklearn.linear model import LinearRegression
         from sklearn.metrics import mean absolute error, mean squared error, r2 score
         from sklearn.ensemble import RandomForestRegressor
         import pickle
         import gradio as gr
```

Data collections

Extracting USD_INR exchange rate

Price	Close	High	Low	Open	Volume
Ticker	USDINR=X	USDINR=X	USDINR=X	USDINR=X	USDINR=X
Date					
2024-01-01	83.248596	83.237999	83.150002	83.248596	0
2024-01-02	83.202599	83.343002	83.169800	83.202599	0
2024-01-03	83.257004	83.333702	83.246201	83.257004	0
2024-01-04	83.318100	83.360298	83.202103	83.318100	0
2024-01-05	83.240601	83.271599	83.035004	83.240601	0

In [3]: usd_inr.info()

```
<class 'pandas.core.frame.DataFrame'>
```

DatetimeIndex: 392 entries, 2024-01-01 to 2025-07-04

Data columns (total 5 columns):

#	Column	Non-Null Count	Dtype
0	(Close, USDINR=X)	392 non-null	float64
1	(High, USDINR=X)	392 non-null	float64
2	(Low, USDINR=X)	392 non-null	float64
3	(Open, USDINR=X)	392 non-null	float64
4	(Volume, USDINR=X)	392 non-null	int64
dtynes: $float64(4)$ int64(1)			

dtypes: float64(4), int64(1)

memory usage: 18.4 KB

```
In [4]: usd_inr.reset_index(inplace= True)
```

In [5]: usd_inr.head()

```
Out[5]:
         Price
                               Close
                                           High
                                                                 Open
                                                                          Volume
                     Date
                                                       Low
        Ticker
                           USDINR=X USDINR=X USDINR=X USDINR=X
            0 2024-01-01
                           83.248596
                                       83.237999
                                                             83.248596
                                                  83.150002
                                                                                0
            1 2024-01-02
                                                                                0
                            83.202599
                                       83.343002
                                                  83.169800
                                                             83.202599
            2 2024-01-03
                           83.257004
                                       83.333702
                                                  83.246201
                                                             83.257004
                                                                                0
            3 2024-01-04
                           83.318100
                                       83.360298
                                                  83.202103
                                                             83.318100
                                                                                0
            4 2024-01-05
                           83.240601
                                       83.271599
                                                  83.035004
                                                             83.240601
                                                                                0
        usd_inr.tail()
In [6]:
Out[6]:
                     Date
                               Close
                                           High
                                                                 Open
                                                                          Volume
         Price
                                                       Low
                           USDINR=X USDINR=X USDINR=X USDINR=X
        Ticker
          387 2025-06-30
                           85.455299
                                       85.927696
                                                  85.241997
                                                             85.455299
                                                                                0
          388 2025-07-01
                           85.713997
                                                  85.459297
                                                             85.713997
                                                                                0
                                       85.741699
          389 2025-07-02
                           85.642799
                                       85.771004
                                                  85.510498
                                                             85.642799
                                                                                0
          390 2025-07-03
                           85.694099
                                       85.697998
                                                  85.192703
                                                             85.694099
                                                                                0
          391 2025-07-04
                           85.319099
                                       85.553001
                                                  85.307297
                                                             85.319099
                                                                                0
        #keep only relevent columns
In [7]:
        usd_inr = usd_inr[['Date', 'Close']]
        #Changing colun names
In [8]:
        usd inr.columns = ['Date', 'USD INR']
```

In [9]:

usd_inr.info()

```
<class 'pandas.core.frame.DataFrame'>
        RangeIndex: 392 entries, 0 to 391
        Data columns (total 2 columns):
         # Column Non-Null Count Dtype
            Date
                     392 non-null
                                     datetime64[ns]
            USD_INR 392 non-null
                                     float64
        dtypes: datetime64[ns](1), float64(1)
        memory usage: 6.3 KB
In [10]: usd_inr
```

Out[10]

	Date	USD_INR
0	2024-01-01	83.248596
1	2024-01-02	83.202599
2	2024-01-03	83.257004
3	2024-01-04	83.318100
4	2024-01-05	83.240601
•••		
387	2025-06-30	85.455299
388	2025-07-01	85.713997
389	2025-07-02	85.642799
390	2025-07-03	85.694099
391	2025-07-04	85.319099

392 rows × 2 columns

Scraping the gold prices from the website

Extracting 2024 data

```
url_2024 = "https://www.exchange-rates.org/api/v2/rates/GetChartRates?dataDisplayMode=2&from=XAU&to=INR&countryCode=IN&unit=G&karat=22&group
```

```
response_2024 = requests.get(url_2024)
data_2024 = response_2024.json()
```

In [13]: data_2024

```
Out[13]: {'ErrorMessage': None,
                                                                                                                'SectionHeader': None,
                                                                                                                'StatisticsHtml': 'This chart shows gold prices in India for 2024. Prices are in Indian Rupees per gram\r\n\r\nfor 22K gold\r\n.',
                                                                                                                'FAOHtml': '<section class="fag-section wo-title"><h2>What was the average gold price in India in 2024?</h2>\nThe average price of gold
                                                                                                  in 2024 was <span class="currencySymbol">₹</span>5,895.44 per gram.\n<h2>What was the highest gold price in India in 2024?</h2>\nThe
                                                                                                  high point per gram of\r\n22K\r\ngold during 2024 was <span class="currencySymbol">₹</span>6,907.09 on October 30, 2024.\n<h2>What was
                                                                                                  the lowest gold price in India in 2024?</h2>\nThe low point was <span class="currencySymbol">₹</span>4,877.01 per gram of gold on Februa
                                                                                                  ry 13, 2024.\n<h2>Was the price of gold in India up or down in 2024?</h2>\nThe price of\r\n22K\r\ngold in INR was\r\nup <span class
                                                                                                   ="rate-change rate-green">+30.67%</span>\r\nin 2024.\n</section>',
                                                                                                              'ChartData': '[[D(2024,1,1),R(5066311,3)],[D(2024,1,2),R(5053341,3)],[D(2024,1,3),R(5014551,3)],[D(2024,1,4),R(5012479,3)],[D(2024,1,5),R
                                                                                                   (5015198,3)], [D(2024,1,8), R(4966310,3)], [D(2024,1,9), R(4972306,3)], [D(2024,1,10), R(4955580,3)], [D(2024,1,11), R(4978278,3)], [D(2024,1,12), R(49782
                                                                                                     (5005296,3), [D(2024,1,15),R(5015326,3)], [D(2024,1,16),R(4962556,3)], [D(2024,1,17),R(4925980,3)], [D(2024,1,18),R(4956514,3)], [D(2024,1,15),R(4956514,3)], [D(2024,1,15),R(4956514,3)]
                                                                                                   9),R(4972076,3)],[D(2024,1,22),R(4950837,3)],[D(2024,1,23),R(4974937,3)],[D(2024,1,24),R(4939310,3)],[D(2024,1,25),R(4952733,3)],[D(202
                                                                                                   4,1,26, R(4944702,3), D(2024,1,29), R(4976772,3), D(2024,1,30), R(4987353,3), D(2024,1,31), R(4998434,3), R(498434,3), R(5026316,3), R(5
                                                                                                   4,2,2),R(4988710,3)],[D(2024,2,5),R(4953904,3)],[D(2024,2,6),R(4983216,3)],[D(2024,2,7),R(4980184,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(4974870,3)],[D(2024,2,8),R(49870,3)],[D(2024,2,8),R(49870,3)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2024,2,8)],[D(2
                                                                                                   4,2,9),R(4953073,3)],[D(2024,2,12),R(4938727,3)],[D(2024,2,13),R(4877012,3)],[D(2024,2,14),R(4877947,3)],[D(2024,2,15),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(4902940,3)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240,2)],[D(2024,2,16),R(490240
                                                                                                  4,2,16),R(4924927,3)],[D(2024,2,19),R(4934986,3)],[D(2024,2,20),R(4944551,3)],[D(2024,2,21),R(4952549,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,21),R(4952549,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,21),R(4952549,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,3)],[D(2024,2,22),R(4947502,2)],[D(2024,2,22),R(4947502,2)],[D(2024,2,22),R(4947502,2)],[D(2024,2,22),R(4947502,2)],[D(2024,
                                                                                                  24,2,23),R(4972228,3)],[D(2024,2,26),R(4960543,3)],[D(2024,2,27),R(4961670,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,29),R(4994153,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,29),R(4994153,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,2,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4973105,3)],[D(2024,28),R(4975105,3)],[D(2024,28),R(4975105,3)],[D(2024,28),R(4975105,3)],[D(2024,28),R(4975105,3)],[D(2024,28),R(4975105,3)],[D(2024
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In [16]: df 2024

	Date	gold_rate
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1	2024-01-02	5053.34
2	2024-01-03	5014.55
3	2024-01-04	5012.48
4	2024-01-05	5015.20
•••		
257	2024-12-25	6595.73
258	2024-12-26	6650.44
259	2024-12-27	6597.52
260	2024-12-30	6585.39
261	2024-12-31	6620.06

262 rows × 2 columns

Extracting 2025 data

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In [17]: url_2025 = "https://www.exchange-rates.org/api/v2/rates/GetChartRates?dataDisplayMode=2&from=XAU&to=INR&countryCode=IN&unit=G&karat=22&group
response_2025 = requests.get(url_2025)
data_2025 = response_2025.json()
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In [18]: data_2025

Out[16]:

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Out[18]: {'ErrorMessage': None,
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                                                                                                                 'FAOHtml': '<section class="fag-section wo-title"><h2>What was the average gold price in India in 2025?</h2>\nThe average price of gold
                                                                                                   in 2025 was <span class="currencySymbol">₹</span>7,835.23 per gram.\n<h2>What was the highest gold price in India in 2025?</h2>\nThe
                                                                                                   high point per gram of\r\n22K\r\ngold during 2025 was <span class="currencySymbol">₹</span>8,714.51 on June 13, 2025.\n<h2>What was the
                                                                                                    lowest gold price in India in 2025?</h2>\nThe low point was <span class="currencySymbol">₹</span>6,617.80 per gram of gold on January 1,
                                                                                                    2025.\n<h2>Was the price of gold in India up or down in 2025?</h2>\nThe price of\r\n22K\r\ngold in INR was\r\nup <span class="rate-c
                                                                                                    hange rate-green">+26.97%</span>\r\nin 2025.\n</section>',
                                                                                                                 'ChartData': '[[D(2025,1,1),R(6617799,3)],[D(2025,1,2),R(6723704,3)],[D(2025,1,3),R(6676081,3)],[D(2025,1,6),R(6653734,3)],[D(2025,1,7),R
                                                                                                    (6698446,3)],[D(2025,1,8),R(6741716,3)],[D(2025,1,9),R(6762862,3)],[D(2025,1,10),R(6831727,3)],[D(2025,1,13),R(6808163,3)],[D(2025,1,14),R
                                                                                                    (6823053,3)],[D(2025,1,15),R(6868059,3)],[D(2025,1,16),R(6925567,3)],[D(2025,1,17),R(6895195,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,3)],[D(2025,1,20),R(6885729,20)],[D(2025,1,20),R(6885729,20)],[D(2025,1,20),R(6885729,20)],[D(2025,1,20),R(6885729,20)],[D(2025,1,20)
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                                                                                                   5,1,28, R(7055387,3), D(2025,1,29), R(7048267,3), D(2025,1,30), R(7136503,3), D(2025,1,31), R(7150338,3), D(2025,2,3), R(7211008,3), D(2025,2,3), R(7211008,3), D(2025,2,3), R(7211008,3), R(721
                                                                                                   5,2,4),R(7291511,3)],[D(2025,2,5),R(7384453,3)],[D(2025,2,6),R(7377777,3)],[D(2025,2,7),R(7402813,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10),R(7506140,3)],[D(2025,2,10
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                                                                                                   25,2,18),R(7512482,3)],[D(2025,2,19),R(7514305,3)],[D(2025,2,20),R(7492602,3)],[D(2025,2,21),R(7497618,3)],[D(2025,2,24),R(7540058,3)],[D(2025,2,18),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(7512482,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(751242,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(75124,3)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19),R(2025,2,19)],[D(2025,2,19)],[D(2025,2,19)],[D(2025,2,19)],[D(2025,2,19)],[D(2025,2,19)],[D(2025,2,19)],[D
                                                                                                   025,2,25),R(7478657,3)],[D(2025,2,26),R(7497187,3)],[D(2025,2,27),R(7400899,3)],[D(2025,2,28),R(7367585,3)],[D(2025,3,3),R(7444628,3)],[D(2025,2,26),R(7478657,3)],[D(2025,2,26),R(7497187,3)],[D(2025,2,27),R(7400899,3)],[D(2025,2,28),R(7367585,3)],[D(2025,3,3),R(7444628,3)],[D(2025,2,26),R(7497187,3)],[D(2025,2,26),R(7497187,3)],[D(2025,2,27),R(7400899,3)],[D(2025,2,28),R(7367585,3)],[D(2025,3,3),R(7444628,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(7497187,3)],[D(2025,2,28),R(749718,3)],[D(2025,2,28),R(749718,3)],[D(2025,2,28),R(749718,3)],[D(2025,2,28),R(749718,3)],[D(2025,2,28),R(749718,3)],[D(2025,28),R(749718,3)],[D(2025,28),R(749718,3)],[D(2025,28),R(749718,3)],[D(2025,28),R(749718,3)],[D(2025,28),R(749718,3)],[D(2025,28),R(2025,28),R(2025,28)],[D(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025,28),R(2025
                                                                                                   025,3,4),R(7496334,3)],[D(2025,3,5),R(7466535,3)],[D(2025,3,6),R(7479139,3)],[D(2025,3,7),R(7477204,3)],[D(2025,3,10),R(7433074,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(7496334,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(749634,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(74964,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)],[D(2025,3,6),R(7496,3)
                                                                                                    5,3,11),R(7497898,3),[D(2025,3,12),R(7541758,3)],[D(2025,3,13),R(7649151,3)],[D(2025,3,14),R(7653370,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(7685280,3)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17),R(2025,3,17)],[D(2025,3,17)],[D(2025,3,17)],[D(2025,3,17)],[D(2025,3,17)],[D(2025,3,17)],[D(2025,3,17)],[
                                                                                                    25,3,18, R(7745908,3), D(2025,3,19), R(7756515,3), D(2025,3,20), R(7745853,3), D(2025,3,21), R(7661014,3), D(2025,3,24), R(7589103,3), D(2025,3,18), D(2025,3,21), D
                                                                                                    025,3,25),R(7619642,3)],[D(2025,3,26),R(7629515,3)],[D(2025,3,27),R(7718155,3)],[D(2025,3,28),R(7773123,3)],[D(2025,3,31),R(7867160,3)],[D(2025,3,25),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(7619642,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,26),R(2025,3)],[D(2025,3,
                                                                                                   (2025,4,1),R(7853178,3)],[D(2025,4,2),R(7941385,3)],[D(2025,4,3),R(7826433,3)],[D(2025,4,4),R(7661132,3)],[D(2025,4,7),R(7566580,3)],[D(2025,4,2),R(7941385,3)],[D(2025,4,3),R(7826433,3)],[D(2025,4,4),R(7661132,3)],[D(2025,4,7),R(7941385,3)],[D(2025,4,3),R(7826433,3)],[D(2025,4,4),R(7661132,3)],[D(2025,4,7),R(7941385,3)],[D(2025,4,3),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,3)],[D(2025,4,4),R(7826433,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4),R(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[D(2025,4,4)],[
                                                                                                   5,4,8),R(7602489,3)],[D(2025,4,9),R(7825457,3)],[D(2025,4,10),R(8068740,3)],[D(2025,4,11),R(8207242,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,14),R(8140798,3)],[D(2025,4,
                                                                                                    5,4,15, R(8167083,3), D(2025,4,16), R(8432597,3), D(2025,4,17), D(2025,4,18), R(8352864,3), R(
                                                                                                   25,4,22),R(8348239,3)],[D(2025,4,23),R(8342062,3)],[D(2025,4,24),R(8448257,3)],[D(2025,4,25),R(8350805,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(8370777,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(837077,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,3)],[D(2025,4,28),R(83707,28)],[D(2025,4,28),R(83707,28)],[D(2025,4
                                                                                                    025,4,29),R(8330619,3)],[D(2025,4,30),R(8167491,3)],[D(2025,5,1),R(8083632,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,4,20),R(8167491,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,5),R(8266986,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2),R(8084630,3)],[D(2025,5,2)],[D(2025,5,2)],[D(2025,5,2)],[D(2025,5,2)],[D(2025,5,2)],[D(2025,5,2)],[D(2025,5,2)],[D(20
                                                                                                    5,5,6),R(8486622,3)],[D(2025,5,7),R(8412541,3)],[D(2025,5,8),R(8390680,3)],[D(2025,5,9),R(8377691,3)],[D(2025,5,12),R(8099199,3)],[D(202
                                                                                                   5,5,13),R(8147983,3)],[D(2025,5,14),R(8012772,3)],[D(2025,5,15),R(8175991,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,19),R(8119627,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(8074356,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(807456,3)],[D(2025,5,16),R(80756,3)],[D(2025,5,16),R(80756,3)],[D(2025,5,16),R(80756,3)],[D
                                                                                                    25,5,20),R(8309978,3)],[D(2025,5,21),R(8374651,3)],[D(2025,5,22),R(8359907,3)],[D(2025,5,23),R(8418063,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(8399407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),R(839407,3)],[D(2025,5,26),
                                                                                                   025,5,27),R(8313371,3)],[D(2025,5,28),R(8268390,3)],[D(2025,5,29),R(8347140,3)],[D(2025,5,30),R(8295795,3)],[D(2025,6,2),R(8529179,3)],[D(2025,5,20),R(8295795,3)],[D(2025,6,2),R(8529179,3)],[D(2025,5,20),R(8295795,3)],[D(2025,6,2),R(8529179,3)],[D(2025,5,20),R(8295795,3)],[D(2025,6,2),R(8529179,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295795,3)],[D(2025,6,2),R(8295,2)],[D(2025,6,2),R(8295,2)],[D(2025,6,2),R(8295,2)],[D(2025,6,2),R(8295,2)],[D(2025,6,2),R(8295,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[D(2025,6,2)],[
                                                                                                   025,6,3),R(8481813,3)],[D(2025,6,4),R(8553307,3)],[D(2025,6,5),R(8509104,3)],[D(2025,6,6),R(8373064,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(8404074,3)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9),R(84040,4)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,9)],[D(2025,6,
                                                                                                   5,6,10),R(8386329,3)],[D(2025,6,11),R(8473836,3)],[D(2025,6,12),R(8542978,3)],[D(2025,6,13),R(8714514,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(8596832,3)],[D(2025,6,16),R(859682,3)],[D(2025,6,16),R(859682,3)],[D(2025,6,16),R(859682,3)],[D(2025,6,1
                                                                                                    25,6,17),R(8657839,3)],[D(2025,6,18),R(8618259,3)],[D(2025,6,19),R(8605559,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,23),R(8542009,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,23),R(8542009,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(8594988,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(2025,6,20),R(859498,3)],[D(
                                                                                                    025,6,24),R(8418991,3)],[D(2025,6,25),R(8445181,3)],[D(2025,6,26),R(8389573,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,27),R(8251201,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(835427,3)],[D(2025,6,30),R(835427,3)],[D(2025,6,30),R(835427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)],[D(2025,6,30),R(8353427,3)]
                                                                                                     (2025,7,1),R(8433583,3)],[D(2025,7,2),R(8496357,3)],[D(2025,7,3),R(8369923,3)],[D(2025,7,4),R(8419905,3)],[D(2025,7,7),R(8461032,3)],[D(2025,7,2),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3),R(8496357,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(2025,7,3)],[D(
                                                                                                    5,7,8),R(8339933,3)],[D(2025,7,9),R(8386782,3)],[D(2025,7,10),R(8402866,3)]]',
                                                                                                                 'ChartDataName': 'Gold Price in Indian Rupees'}
In [19]: # Extract the dates and prices for 2024
                                                                                                chart data 2025 = data 2025['ChartData']
```

pattern = r"D(((d+),((d+)),R(((d+),((d+)))"

matches 2025 = re.findall(pattern, chart data 2025)

```
parsed_data_2025 = []
for year, month, day, value, decimal in matches_2025:
    date = datetime(int(year), int(month), int(day))
    price = int(value) / (10 ** int(decimal)) # e.g: divide by 1000
    parsed_data_2025.append((date, round(price, 2)))

df_2025 = pd.DataFrame(parsed_data_2025, columns=["Date", "gold_rate"])
display(df_2025)
```

	Date	gold_rate
0	2025-01-01	6617.80
1	2025-01-02	6723.70
2	2025-01-03	6676.08
3	2025-01-06	6653.73
4	2025-01-07	6698.45
•••		
132	2025-07-04	8419.91
133	2025-07-07	8461.03
134	2025-07-08	8339.93
135	2025-07-09	8386.78
136	2025-07-10	8402.87

137 rows × 2 columns

```
In [20]: # Append the 2024 & 2025
gold_data = pd.concat([df_2024, df_2025])
display(gold_data)
```

	Date	gold_rate
0	2024-01-01	5066.31
1	2024-01-02	5053.34
2	2024-01-03	5014.55
3	2024-01-04	5012.48
4	2024-01-05	5015.20
•••		
132	2025-07-04	8419.91
133	2025-07-07	8461.03
134	2025-07-08	8339.93
135	2025-07-09	8386.78
136	2025-07-10	8402.87

399 rows × 2 columns

```
In [21]: # Merge the 2 dataframes
gold_dataset = pd.merge(usd_inr, gold_data, on='Date', how='inner')
display(gold_dataset)
```

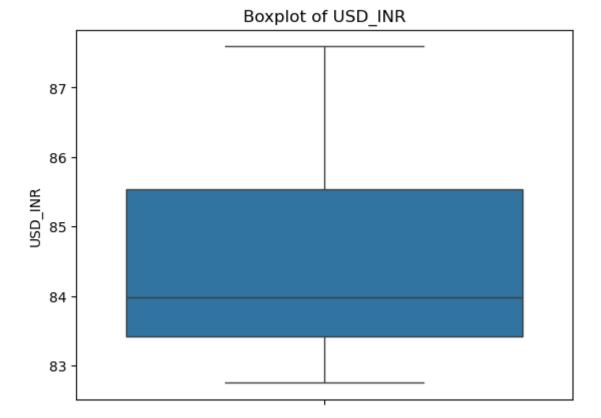
	Date	USD_INR	gold_rate
0	2024-01-01	83.248596	5066.31
1	2024-01-02	83.202599	5053.34
2	2024-01-03	83.257004	5014.55
3	2024-01-04	83.318100	5012.48
4	2024-01-05	83.240601	5015.20
•••			
387	2025-06-30	85.455299	8353.43
388	2025-07-01	85.713997	8433.58
389	2025-07-02	85.642799	8496.36
390	2025-07-03	85.694099	8369.92
391	2025-07-04	85.319099	8419.91

392 rows × 3 columns

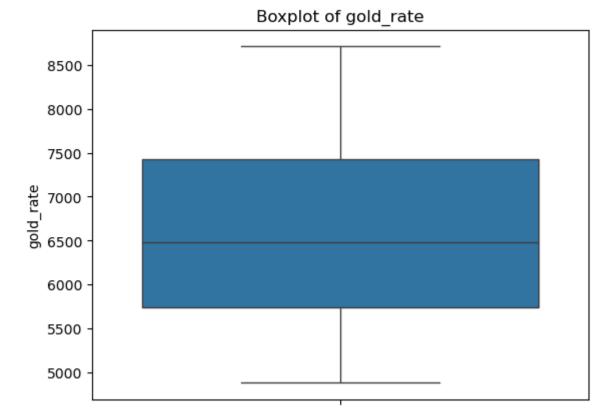
Exploratory Data Analysis

- -- Handle Missing values None
- -- Handle imbalanced dataset None
- -- Hande outliers Noted
- -- Encode catagorical features None
- -- Normalization or Standardisation Standardisation

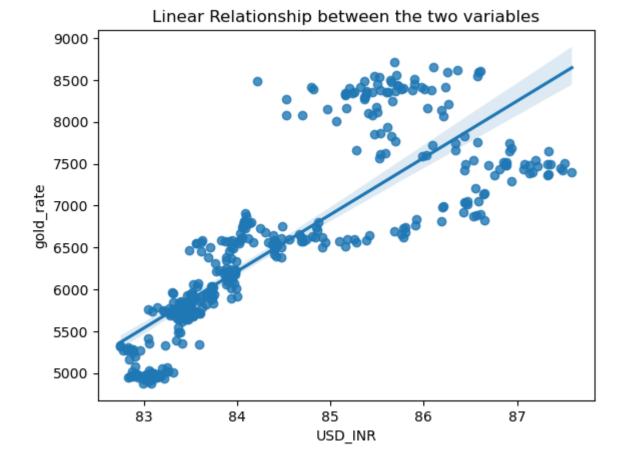
```
In [25]: # Visualize the variable in boxplot
sns.boxplot(data=gold_dataset, y= 'USD_INR')
plt.title("Boxplot of USD_INR")
plt.show()
```



```
In [26]: # Visualize the variable in boxplot
    sns.boxplot(data=gold_dataset, y= 'gold_rate')
    plt.title("Boxplot of gold_rate")
    plt.show()
```



```
In [27]: # visualize the relationship between the two variables
sns.regplot(data= gold_dataset, x = 'USD_INR', y= 'gold_rate')
plt.title("Linear Relationship between the two variables")
plt.show()
```



Insight: As the USD/INR increases, the gold rate also tends to rise, showing a positive relationship between the two variables.

Model training

So basically, I am going to teaching the model: "If I know the USD to INR rate, can I predict the gold rate in INR?"

```
In [28]: # Assigning the columns to X,y variables
    X = gold_dataset[['USD_INR']]
    y = gold_dataset[['gold_rate']]

In [29]: type(X)

Out[29]: pandas.core.frame.DataFrame

In [30]: X.head()
```

```
0 83.248596
          1 83.202599
          2 83.257004
          3 83.318100
          4 83.240601
In [32]: # Splits data into training and test sets
          X_train, X_test, y_train, y_test = train_test_split(X, y, test_size= 0.1, random_state= 42)
          X_train 90% of the input data for training the model
          X_test 10% of the input data to test the model
          y_train 90% of the output data (gold rates) for training
          y_test 10% of the output data to check predictions
          test_size=0.1 =10% of the full dataset will be used for testing
          random_state=42 Keeps the split the same every time you run it
         len(X_train)
In [33]:
Out[33]: 352
In [35]: # Transform the values using standardisation
          scaler = StandardScaler()
          X_train_scaled = scaler.fit_transform(X_train)
          X_test_scaled = scaler.transform(X_test)
          fit_transform(X_train) → calculates mean & std from training data, then applies scaling
          transform(X_test) → uses the same mean & std from training to scale test data
In [36]: X_train_scaled[:5]
```

Out[30]:

USD_INR

Using linear regression

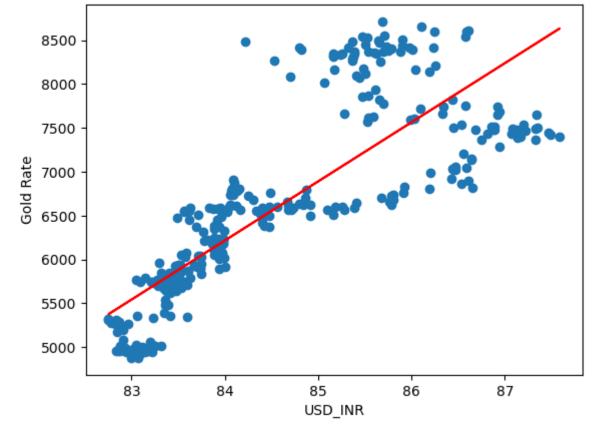
```
In [38]: # Build the model to learn the releationship between the two variables
         regressor = LinearRegression()
         regressor.fit(X_train_scaled, y_train)
Out[38]:
          LinearRegression
         LinearRegression()
 In [ ]: # Print the model's parameters
         regressor.get_params()
 Out[ ]: {'copy_X': True, 'fit_intercept': True, 'n_jobs': None, 'positive': False}
 In [ ]: # Print the slope(m) value
         regressor.coef_
 Out[]: array([[874.92586566]])
In [41]: # Print the intercept(b)
         regressor.intercept_
Out[41]: array([6540.76110795])
In [42]: \# y = mx + b
         m = regressor.coef_[0][0]
         b = regressor.intercept_[0]
In [43]: m, b
Out[43]: (np.float64(874.9258656619443), np.float64(6540.761107954547))
In [44]: # Predic the gold_rate from the training
         X_train_predict = regressor.predict(X_train_scaled)
```

Visualize actual vs prediction

```
In [71]: plt.scatter(X_train, y_train) # Scatter plot (dots) of actual data
    plt.plot(X_train, X_train_predict, color = "Red") # Line plot of model predictions
    plt.xlabel("USD_INR")
    plt.ylabel("Gold Rate")
    plt.title("Gold Price Prediction vs Actual using Linear regression")

plt.show()
```

Gold Price Prediction vs Actual using Linear regression



Dots = Real values

Line = Model's predicted values

```
In [47]: # Predict the test data
X_test_predict = regressor.predict(X_test_scaled)
```

In [48]: X_test_predict

```
[7197.19517463],
                [6177.04800819],
                [5506.88088994],
                [6474.30909352],
                [6032.49651105],
                [5899.00421676],
                [5593.1169532],
                [6242.51334533],
                [8463.90083914],
                [6141.72028481],
                [7706.76209205],
                [7024.59959655],
                [5947.41266241],
                [7619.8573328],
                [7857.45016083],
                [7705.54815164],
                [5625.88305656],
                [7371.61166332],
                [6574.15569203],
                [5709.41347298],
                [5892.60016673],
                [5798.54550424],
                [5991.84493885],
                [5570.86480827],
                [5754.18524122],
                [5882.95551307],
                [6037.55288147],
                [6853.14594547],
                [8584.58503336],
                [6867.10111633],
                [5798.00540364],
                [7808.97484558],
                [5874.19045183],
                [5570.39157727],
                [5820.05179595],
                [5541.33416472]])
In [ ]: # Calculate evaluation metrics for X train Lr model
        mae = mean_absolute_error(y_train, X_train_predict)
        mse = mean_squared_error(y_train, X_train_predict)
        r2 = r2_score(y_train, X_train_predict)
```

Out[48]: array([[5943.5033628],

[7948.06361089], [6787.27424692], [5466.90315754],

```
print(f"Mean Absolute Error (MAE): {mae:.2f}")
        print(f"Mean Squared Error (MSE): {mse:.2f}")
        print(f"R2 Score: {r2:.4f}")
       Simple Linear Regression:
       Mean Absolute Error (MAE): 463.97
       Mean Squared Error (MSE): 373678.68
       R<sup>2</sup> Score: 0.6720
In [ ]: # Calculate evaluation metrics for X_test_Lr model
        mae = mean_absolute_error(y_test, X_test_predict)
        mse = mean squared error(y test, X test predict)
        r2 = r2_score(y_test, X_test_predict)
        print("Simple Linear Regression: ")
        print(f"Mean Absolute Error (MAE): {mae:.2f}")
        print(f"Mean Squared Error (MSE): {mse:.2f}")
        print(f"R2 Score: {r2:.4f}")
       Simple Linear Regression:
       Mean Absolute Error (MAE): 484.32
       Mean Squared Error (MSE): 419475.23
```

Metric	Ideal Value	Meaning
MAE	Close to 0	Smaller = Better (fewer ₹ errors)
MSE	Close to 0	Lower = Better (no large errors)
R^2	Close to 1	Higher = Better (model fits well)

Using Random Forest Regressor

print("Simple Linear Regression: ")

R² Score: 0.6769

```
In [52]: # Build the model to learn the releationship between the two variables
    rfr_model = RandomForestRegressor()
    rfr_model.fit(X_train_scaled, y_train)

    c:\Users\sanka\anaconda3\envs\learning\Lib\site-packages\sklearn\base.py:1389: DataConversionWarning: A column-vector y was passed when a 1d
    array was expected. Please change the shape of y to (n_samples,), for example using ravel().
    return fit_method(estimator, *args, **kwargs)
```

```
RandomForestRegressor()
In [53]: X train predict rfr = rfr model.predict(X train scaled)
In [54]: X_train_predict_rfr[0]
Out[54]: np.float64(5617.636800000008)
In [79]: X test predict rfr = rfr model.predict(X test scaled)
In [80]: X_test_predict_rfr[0]
Out[80]: np.float64(5718.750000000001)
 In [ ]: # Calculate evaluation metrics for X train rfr model
         mae = mean absolute error(y train, X train predict rfr)
         mse = mean_squared_error(y_train, X_train_predict_rfr)
         r2 = r2_score(y_train, X_train_predict_rfr)
         print("RandomForestRegressor:")
         print(f"Mean Absolute Error (MAE): {mae:.2f}")
         print(f"Mean Squared Error (MSE): {mse:.2f}")
         print(f"R2 Score: {r2:.4f}")
        RandomForestRegressor:
        Mean Absolute Error (MAE): 121.61
        Mean Squared Error (MSE): 37145.53
        R<sup>2</sup> Score: 0.9674
```

Out[52]:

▼ RandomForestRegressor

```
In []: # Calculate evaluation metrics for X_test_rfr_model
    mae = mean_absolute_error(y_test, X_test_predict_rfr)
    mse = mean_squared_error(y_test, X_test_predict_rfr)
    r2 = r2_score(y_test, X_test_predict_rfr)

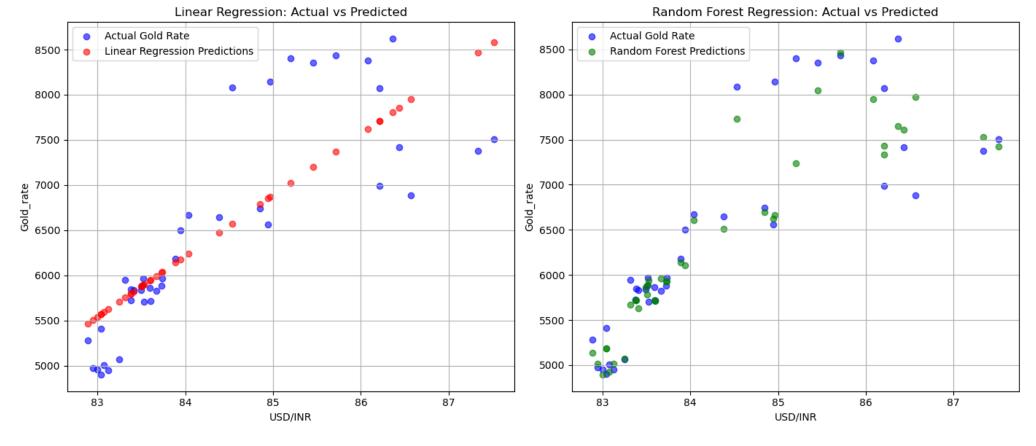
    print("RandomForestRegressor:")
    print(f"Mean Absolute Error (MAE): {mae:.2f}")
    print(f"Mean Squared Error (MSE): {mse:.2f}")
    print(f"R² Score: {r2:.4f}")

RandomForestRegressor:
    Mean Absolute Error (MAE): 262.26
    Mean Squared Error (MSE): 186641.77
    R² Score: 0.8563
```

No severe overfitting

Comparing the models using plots

```
In [83]: # Create a figure with two subplots
         plt.figure(figsize=(14, 6))
         # Plot 1: Linear Regression
         plt.subplot(1, 2, 1)
         plt.scatter(X test, y test, color='blue', label='Actual Gold Rate', alpha=0.6)
         plt.scatter(X_test, X_test_predict, color='red', label='Linear Regression Predictions', alpha=0.6)
         plt.xlabel('USD/INR')
         plt.ylabel('Gold_rate')
         plt.title('Linear Regression: Actual vs Predicted')
         plt.legend()
         plt.grid(True)
         # Plot 2: Random Forest Regression
         plt.subplot(1, 2, 2)
         plt.scatter(X_test, y_test, color='blue', label='Actual Gold Rate', alpha=0.6)
         plt.scatter(X_test, X_test_predict_rfr, color='green', label='Random Forest Predictions', alpha=0.6)
         plt.xlabel('USD/INR')
         plt.ylabel('Gold_rate')
         plt.title('Random Forest Regression: Actual vs Predicted')
         plt.legend()
         plt.grid(True)
         plt.tight layout()
         plt.show()
```



Random Forest's predictions closely follow actual gold rates with higher accuracy (R²: 0.85 vs 0.67) → Deploy Random Forest.

Why?

- -- Lower errors (MAE: 262 vs 484) and better fit for non-linear trends.
- -- Visual plots confirm RF predictions align tighter with actual data points.

MLOPS

- -- Save the model
- -- Build interface
- -- Connect model & Interface

```
gold_dataset.to_csv("gold_dataset_for_price_predictions.csv", index=False)

In [90]: #Save the model using pickle for later use
    pickle.dump(regressor, open('regressor.pkl', 'wb'))
    pickle.dump(rfr_model, open('rfr_model.pkl', 'wb'))
    pickle.dump(scaler, open('scaler.pkl', 'wb'))

In [91]: # Reload the model
    regressor_reloaded = pickle.load(open('regressor.pkl', 'rb'))
    rfr_reloaded = pickle.load(open('rfr_model.pkl', 'rb'))
    scaler_reloded = pickle.load(open('scaler.pkl', 'rb'))
```

Creating the demo interface

- * Running on local URL: http://127.0.0.1:7861
- * To create a public link, set `share=True` in `launch()`.

Unable to connect

Firefox can't establish a connection to the server at 127.0.0.1:7861.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the web.

Try Again

```
Out[95]:

c:\Users\sanka\anaconda3\envs\learning\Lib\site-packages\sklearn\utils\validation.py:2739: UserWarning: X does not have valid feature names, but StandardScaler was fitted with feature names
    warnings.warn(
```