Netflix! What started in 1997 as a DVD rental service has since exploded into one of the largest entertainment and media companies.

Given the large number of movies and series available on the platform, it is a perfect opportunity to flex your exploratory data analysis skills and dive into the entertainment industry.

You work for a production company that specializes in nostalgic styles. You want to do some research on movies released in the 1990's. You'll delve into Netflix data and perform exploratory data analysis to better understand this awesome movie decade!

You have been supplied with the dataset `netflix_data.csv`, along with the following table detailing the column names and descriptions. Feel free to experiment further after submitting!

The data

netflix_data.csv

Column	Description
`show_id`	The ID of the show
`type`	Type of show
`title`	Title of the show
`director`	Director of the show
`cast`	Cast of the show
`country`	Country of origin
`date_added`	Date added to Netflix
`release_year`	Year of Netflix release
`duration`	Duration of the show in minutes
`description`	Description of the show
`genre`	Show genre

```
# Importing pandas and matplotlib
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

# Read in the Netflix CSV as a DataFrame
netflix_df = pd.read_csv("netflix_data.csv")
print(netflix_df)
```

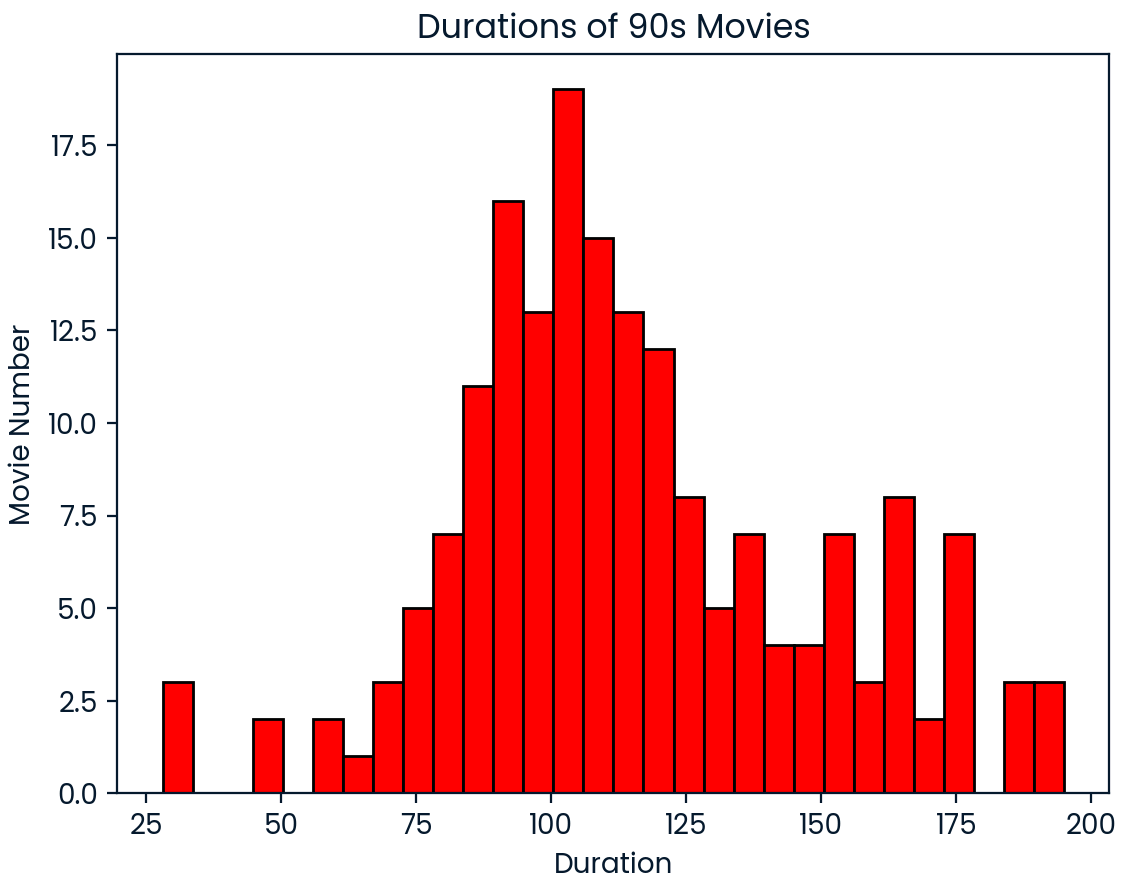
```
     show_id  ...             genre
0         s2  ...            Dramas
1         s3  ...     Horror Movies
2         s4  ...            Action
3         s5  ...            Dramas
4         s6  ...  International TV
...      ...  ...               ...
4807   s7779  ...          Comedies
4808   s7781  ...            Dramas
4809   s7782  ...          Children
4810   s7783  ...            Dramas
4811   s7784  ...            Dramas

[4812 rows x 11 columns]
```

```
movies = netflix_df[netflix_df['type'] == 'Movie']

ninety_years = movies[np.logical_and(movies["release_year"] > 1989,
movies["release_year"] < 2000)]
print(ninety_years)
```

```
     show_id  ...           genre
6         s8  ...          Dramas
118     s167  ...          Dramas
145     s211  ...        Comedies
167     s239  ...        Comedies
194     s274  ...          Dramas
...      ...  ...             ...
4672   s7536  ...          Dramas
4689   s7571  ...  Classic Movies
4718   s7624  ...          Action
4746   s7682  ...          Action
4756   s7695  ...          Dramas

[183 rows x 11 columns]
```

```
duration = ninety_years["duration"]
plt.hist(duration, bins = 30, color = "red",edgecolor='black' )
plt.xlabel("Duration")
plt.ylabel("Movie Number")
plt.title("Durations of 90s Movies")
```

```
Text(0.5, 1.0, 'Durations of 90s Movies')
```




```
ninetys_action = ninety_years[ninety_years["genre"] == "Action"]

count = 0
for index, movie in ninetys_action.iterrows():
    if movie["duration"] < 90:
        count = count + 1

print("There is " + str(count) + " movies in 90s action movies that durations are less than 90 minutes. ")
```

```
There is 7 movies in 90s action movies that durations are less than 90 minutes.
```