```
In [ ]:  import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import datetime as dt
```

```
In [ ]:  netflix_rerelease_df = pd.read_csv('data/netflix_rereleases.csv')
         ratings_df = pd.read_csv("data/movie_lense/ratings.csv")
         oscars_df = pd.read_csv("data/oscars.csv")
         ratings_df['timestamp'] = pd.to_datetime(ratings_df['timestamp'], unit = 's')
         ratings_df
```

```
In [ ]:  oscar_movieId = 179133
         oscar_information = oscars_df[oscars_df['movieId'] == oscar_movieId]
         oscar_information
```

```
In [ ]:  oscar_ratings_df = ratings_df[ratings_df['movieId'] == oscar_movieId]
         oscar_ratings_df['timestamp'] = pd.to_datetime(oscar_ratings_df['timestamp'],
         unit = 's')
         oscar_ratings_df
```

```
In [ ]:  ratings_df.sort_values(by = ['timestamp'])
         oscar_movie_time_ratings_df = oscar_ratings_df.groupby([oscar_ratings_df['time
         stamp'].dt.year, oscar_ratings_df['timestamp'].dt.month]).rating.count()
         oscar_movie_time_ratings_df.head(5)
```

```
In [ ]:  oscar_movie_time_ratings_df.plot()
```

```
In [ ]:  love_ratings_df = ratings_df[ratings_df['movieId'] == love_movieId]
         love_ratings_df['timestamp'] = pd.to_datetime(love_ratings_df['timestamp'], un
         it = 's')
         love_ratings_df
```

```
In [ ]:  ratings_df.sort_values(by = ['timestamp'])
         love_ratings_df.groupby([love_ratings_df['timestamp'].dt.year, love_ratings_df
         ['timestamp'].dt.month]).rating.count().plot()
```

```
In [ ]:  #177545 in netflix_movieId_arr
         netflix_all_ratings_df = ratings_df[ratings_df['movieId'].isin(netflix_rerelea
         se_df['movieId'])]
         netflix_movie_ratings_df = netflix_all_ratings_df.groupby(netflix_all_ratings_
         df['movieId']).count()
         netflix_movie_ratings_df
```

```
In [ ]:  netflix_movie_ratings_df.median()
         netflix_movie_ratings_df.sort_values(by='rating', ascending=False).head(20)
```

```
In [ ]:  netflix_movie_ratings_df['rating'].plot.hist()
```

In [ ]:
```python
ratings_df.sort_values(by = ['timestamp'])
ratings_df.groupby([ratings_df['timestamp'].dt.year, love_ratings_df['timestamp'].dt.month]).rating.count().plot()
```

In [ ]: