Exercise 5

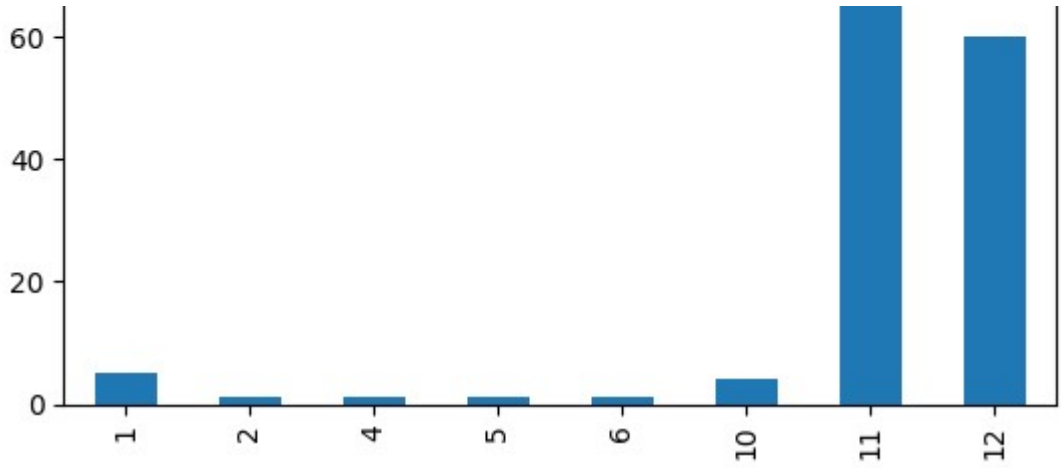
```
%matplotlib inline
import pandas as pd

titles = pd.read_csv('/content/titles.csv')
titles.head()

cast = pd.read_csv('/content/cast.csv', index_col=None)
cast.head()

release_dates = pd.read_csv('/content/release_dates.csv', index_col=None,
                                        parse_dates=['date'], infer_datetime_format=True)
release_dates.head()
```

	title	year	country	date
0	#73, Shaanthi Nivaasa	2007	India	2007-06-15
1	#BKKY	2016	Cambodia	2017-10-12
2	#Beings	2015	Romania	2015-01-29
3	#Captured	2017	USA	2017-09-05
4	#Ewankosau saranghaeyo	2015	Philippines	2015-01-21

Make a bar plot of the months in which movies with "Christmas" in their title tend to be released in the USA.

```
stNick = release_dates[release_dates.title.str.contains('Christmas')]
stNick.date.dt.month.value_counts().sort_index().plot(kind='bar')
```

```
<Axes: >
```

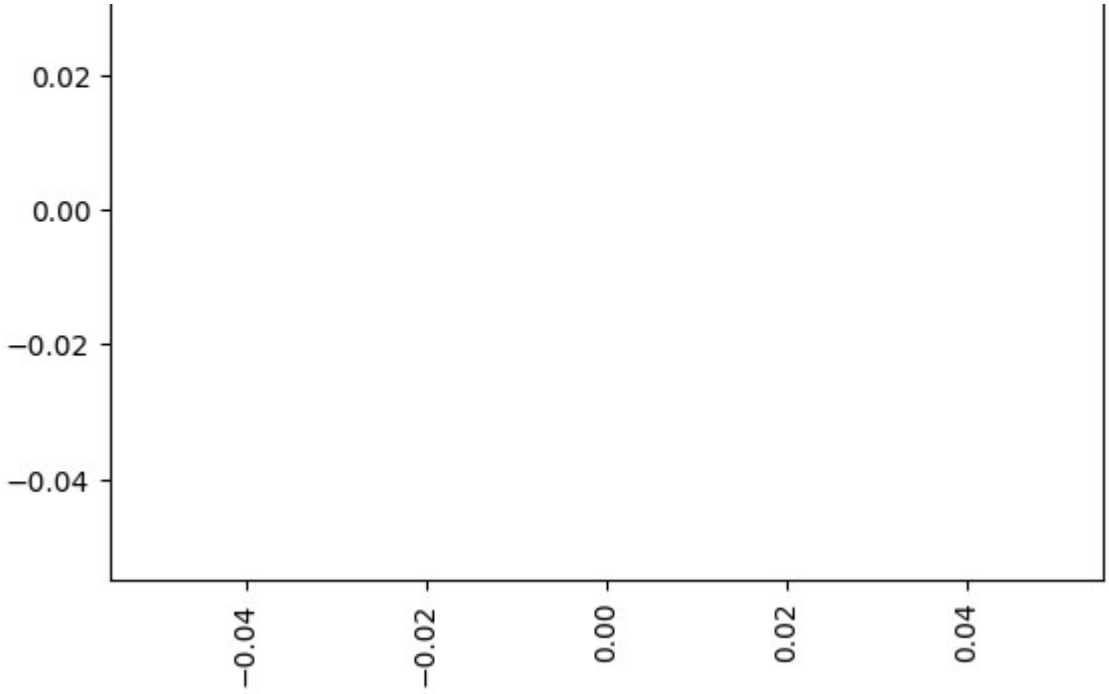


Make a bar plot of the months in which movies whose titles start with "The Hobbit" are released in the USA.

```
rd = release_dates
rd = rd[rd.title.str.startswith('The Hobbit')]
rd = rd[rd.country == 'USA']
rd.date.dt.month.value_counts().sort_index().plot(kind='bar')
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-6-ba7e0e480fd7> in <cell line: 4>()
      2 rd = rd[rd.title.str.startswith('The Hobbit')]
      3 rd = rd[rd.country == 'USA']
----> 4 rd.date.dt.month.value_counts().sort_index().plot(kind='bar')

                                  3 frames
/usr/local/lib/python3.10/dist-packages/pandas/plotting/_matplotlib/core.py in
_post_plot_logic(self, ax, data)
   1737             str_index = [pprint_thing(key) for key in range(data.shape[0])]
   1738
-> 1739         s_edge = self.ax_pos[0] - 0.25 + self.lim_offset
   1740         e_edge = self.ax_pos[-1] + 0.25 + self.bar_width + self.lim_offset
   1741

IndexError: index 0 is out of bounds for axis 0 with size 0
```

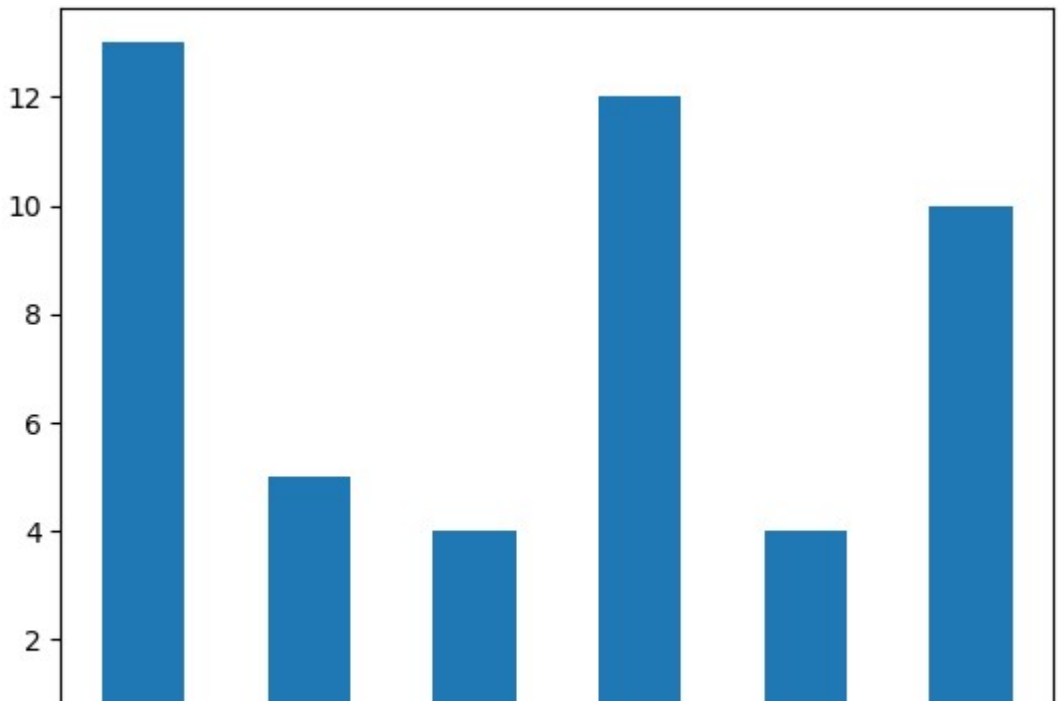
SEARCH STACK OVERFLOW



Make a bar plot of the day of the week on which movies with "Romance" in their title tend to be released in the USA.

```
ronJeremy = release_dates[release_dates.title.str.contains('Romance')]
ronJeremy.date.dt.dayofweek.value_counts().sort_index().plot(kind='bar')
```

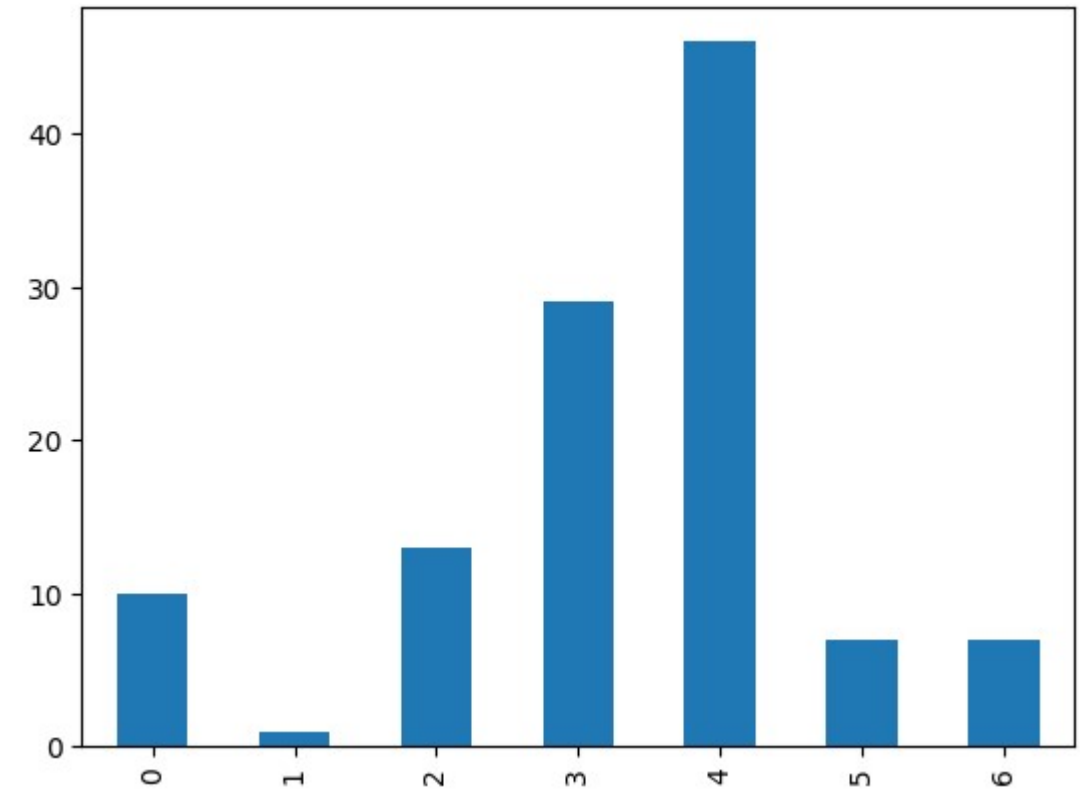
```
<Axes: >
```



Make a bar plot of the day of the week on which movies with "Action" in their title tend to be released in the USA.

```
jamesBond = release_dates[release_dates.title.str.contains('Action')]
jamesBond.date.dt.dayofweek.value_counts().sort_index().plot(kind='bar')
```

```
<Axes: >
```



On which date was each Judi Dench movie from the 1990s released in the USA?

```
judiDench = pd.merge(cast[(cast.name=='Judi Dench')],release_dates[release_dates.country==
judiDench[judiDench.year//10 == 199]
```

	name	type	character	n	title	year	country	date

In which months do films with Judi Dench tend to be released in the USA?

```
judiDench.date.dt.month.value_counts().sort_index()
```

```
Series([], Name: date, dtype: int64)
```