Практическая работа №8

Задание

Выполните задание с применением собственных функций на основе набора данных films.csv: Сколько суммарно вышло фильмов летом (за июнь, июль, август)?

Загружаем библиотеки и загружаем файл csv

```
In [96]:   import pandas as pd
           import numpy as np

           df = pd.read_csv('../films.csv')
```

Смотрим информацию о датафрейме

все ли столбцы заполнили, в каком формате значения в данных столбцах, как называются заголовки

```
In [3]:   df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1890 entries, 0 to 1889
Data columns (total 16 columns):
 #   Column               Non-Null Count  Dtype
---  ------               --------------  -----
 0   imdb_id              1890 non-null   object
 1   popularity           1890 non-null   float64
 2   budget               1890 non-null   int64
 3   revenue              1890 non-null   int64
 4   original_title       1890 non-null   object
 5   cast                 1890 non-null   object
 6   director             1890 non-null   object
 7   tagline              1890 non-null   object
 8   overview             1890 non-null   object
 9   runtime              1890 non-null   int64
 10  genres               1890 non-null   object
 11  production_companies 1890 non-null   object
 12  release_date         1890 non-null   object
 13  vote_count           1890 non-null   int64
 14  vote_average         1890 non-null   float64
 15  release_year         1890 non-null   int64
dtypes: float64(2), int64(5), object(9)
memory usage: 236.4+ KB
```

Изменяем старый датафрейм оставляя фильмы только летом

```
In [28]:   df
```

	imdb_id	popularity	budget	revenue	original_title	cast	director	tagline	overvi
0	tt0369610	32.985763	150000000	1513528810	Jurassic World	Chris Pratt|Bryce Dallas Howard|Irrfan Khan|Vi...	Colin Trevorrow	The park is open.	Twenty-t years af the eve of Jurassi

	imdb_id	popularity	budget	revenue	original_title	cast	director	tagline	overvi
1	tt1392190	28.419936	150000000	378436354	Mad Max: Fury Road	Tom Hardy|Charlize Theron|Hugh Keays-Byrne|Nic...	George Miller	What a Lovely Day.	apocalyp story set the furth read
2	tt2908446	13.112507	110000000	295238201	Insurgent	Shailene Woodley|Theo James|Kate Winslet|Ansel...	Robert Schwentke	One Choice Can Destroy You	Beatr Prior m confront in demon
3	tt2488496	11.173104	200000000	2068178225	Star Wars: The Force Awakens	Harrison Ford|Mark Hamill|Carrie Fisher|Adam D...	J.J. Abrams	Every generation has a story.	Thirty ye af defeat the Gala Emp
4	tt2820852	9.335014	190000000	1506249360	Furious 7	Vin Diesel|Paul Walker|Jason Statham|Michelle ...	James Wan	Vengeance Hits Home	Deck Shaw se rever agai Domi T
...	...	...	...	...	...	...	...	...	...
1885	tt0120903	0.182246	75000000	157299717	X-Men	Patrick Stewart|Hugh Jackman|Ian McKellen|Hall...	Bryan Singer	Evolution Begins	mutar Rogue a Wolveri come t r
1886	tt0192255	0.123920	22000000	13555988	The Little Vampire	Richard E. Grant|Jonathan Lipnicki|Jim Carter|...	Uli Edel	They're not just best friends, they're blood b...	Based the popu books, story t c
1887	tt0131704	0.104908	76000000	35134820	The Adventures of Rocky & Bullwinkle	Rene Russo|Jason Alexander|Piper Perabo|Randy ...	Des McAnuff	This summer it's not the same old bull.	Rocky a Bullwin have be living off
1888	tt0162983	0.031018	40000000	36037909	Hanging Up	Meg Ryan|Diane Keaton|Lisa Kudrow|Walter Matth...	Diane Keaton	Every family has a few hang-ups.	A tri sisters bo over th ambivaler
1889	tt0163676	0.015997	15000000	5217498	The In Crowd	Susan Ward|Lori Heuring|Matthew Settle|Nathan ...	Mary Lambert	What would you do to get in?	A ment disturb you wom takes a j

1890 rows × 16 columns

```
c = len(df.loc[df['release_date'].str[:1] == '7'])
a = len(df.loc[df['release_date'].str[:1] == '6'])
```

```python
b = len(df.loc[df['release_date'].str[:1] == '8'])
result = a+b+c
```

In [112... `result`

Out[112... 450