

#1.1

```
[11]: deaths_by_country

[11]: Country
      AFGHANISTAN          15245.0
      ALBANIA                2827.0
      ALGERIA                39339.0
      ANTARCTICA                 0.0
      ANTIGUA AND BARBUDA        0.0
      ...
      VENEZUELA              44484.0
      VIETNAM                  0.0
      WALLIS AND FUTUNA (FRENCH TERRITORY)    5.0
      YEMEN                   4071.0
      ZAMBIA                  0.0
      Name: Total Deaths, Length: 158, dtype: float64

[12]: top10_deaths = deaths_by_country.sort_values(ascending=False).head(10)

print(top10_deaths)

Country
      CHINA            2106524.0
      TURKEY           1008863.0
      IRAN             761654.0
      SYRIA            487726.0
      ITALY            423280.0
      HAITI            323782.0
      JAPAN            319443.0
      AZERBAIJAN        319251.0
      INDONESIA         282838.0
      ARMENIA          189000.0
      Name: Total Deaths, dtype: float64
```

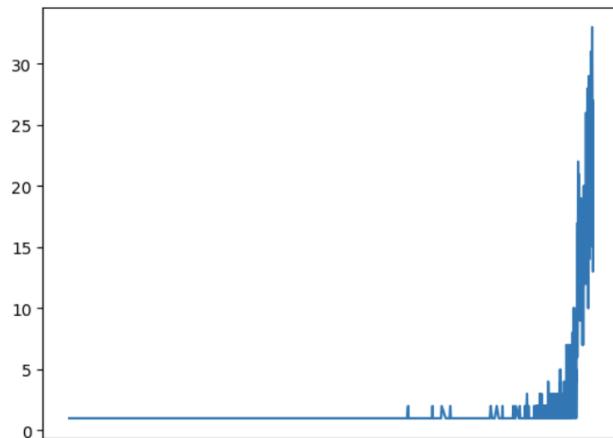
#1.2

```
[15]: #1.2
eq6 = Sig_Eqs[Sig_Eqs["Mag"] > 6]
count_per_year = eq6.groupby("Year").size().sort_index()
print(count_per_year)

Year
-2150.0      1
-2000.0      1
-1250.0      1
-1050.0      1
-479.0       1
...
2021.0      23
2022.0      21
2023.0      27
2024.0      13
2025.0      18
Length: 552, dtype: int64
```

```
[17]: count_per_year.plot()
plt.show()

#观察到的趋势：接近2000年时，mag>6地震显著增多
#原因：可能是观测手段增强，或是人类对地质开发显著增多，引起地壳变化
```



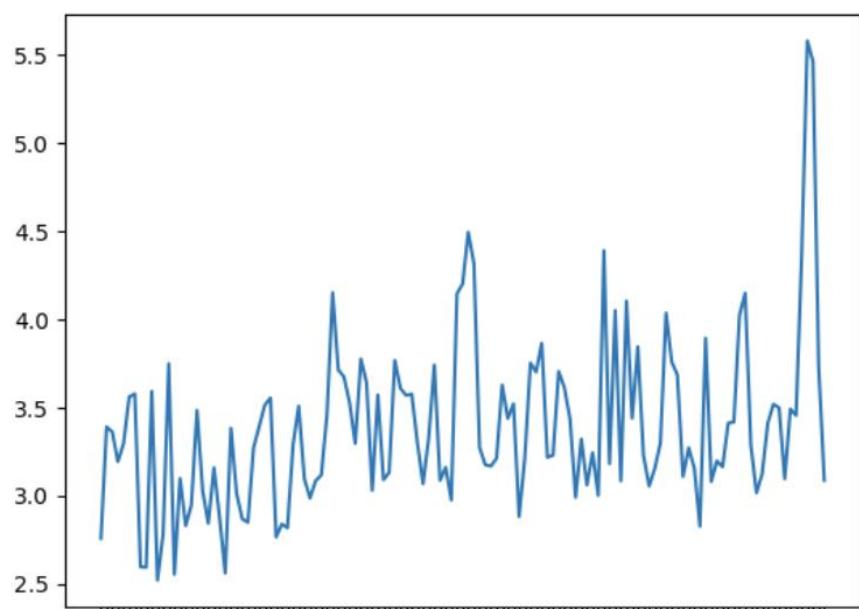
#观察到的趋势：接近 2000 年时，mag>6 地震显著增多

#原因：可能是观测手段增强，或是人类对地质开发显著增多，引起地壳变化

#1.3

	Country	TotalEq	LargestEqDate
14	CHINA	623	1668-7-25
33	JAPAN	424	2011-3-11
72	INDONESIA	421	2004-12-26
7	IRAN	388	856-12-22
9	TURKEY	358	1939-12-26
5	ITALY	333	1915-1-13
3	GREECE	289	365-7-21
55	USA	280	1964-3-28
70	PHILIPPINES	230	1897-9-21
51	MEXICO	214	1787-3-28

#2



#3 数据来源[数据详情 - 数据共享服务系统](#) (2013年-2022年全国328个城市的空气质量数据)

