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| import pandas as pd  import matplotlib.pyplot as plt  data = pd.read\_csv(r'C:\Users\FMI\Desktop\python\day5\dataset.csv')  print(data.head(3))  # how many countries in this list  total\_countries = data['Country\_Region'].nunique()  print("total countries : {}".format(total\_countries))  # Total confirmed and deaths in US  total\_in\_US = data[data['Country\_Region'] == 'US'][['Confirmed', 'Deaths']].sum()  print("total confirmed and death in US :{}".format(total\_in\_US))  # Total confirmed in each country, sorted by most to least(print top 10)  confirmed\_in\_each\_country = data[['Country\_Region', 'Confirmed']].groupby('Country\_Region', as\_index=False).agg("sum")  confirmed\_sort\_in\_each\_country = confirmed\_in\_each\_country.sort\_values(by='Confirmed', ascending=False).head(10)  # bar graph for the result above  # x = confirmed\_sort\_in\_each\_country['Country\_Region']  # y = confirmed\_sort\_in\_each\_country['Confirmed']  # plt.bar(range(len(x)), y, color='green')  # plt.xticks(range(len(x)), x)  # plt.title("confirmed in each country")  # plt.show()  # Total confirmed in China  total\_in\_China = data[data['Country\_Region'] == 'China'][['Confirmed', 'Active']].sum()  print("total confirmed and death in China :{}".format(total\_in\_China))  # Confirmed and active in each province in China  # sorted by Confirmed from most to least  info\_for\_China = data[data['Country\_Region'] == 'China'][['Province\_State', 'Confirmed', 'Active']]  print(info\_for\_China.sort\_values(by='Confirmed', ascending=False))  # Print the country where the deaths number larger than the deaths number China.  number\_in\_China = data[data['Country\_Region'] == 'China']['Deaths'].sum()  deaths = data[['Country\_Region', 'Deaths']].groupby('Country\_Region', as\_index=False).agg("sum")  countries\_more\_than\_China = deaths[deaths['Deaths'] > number\_in\_China]  print(countries\_more\_than\_China) |

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| import pandas as pd  import matplotlib.pyplot as plt  data = pd.read\_csv(r"C:\Users\FMI\Desktop\python\day5\time\_series.csv")  print(data.head(3))  print(data[data["Country/Region"] == 'US'])  transform\_data = data[data["Country/Region"] == 'US'].T  filter\_data = transform\_data[-14:].T  print(filter\_data)  date = filter\_data.columns  print(len(date))  print(filter\_data.values.tolist()[0])  plt.plot(range(len(date)), filter\_data.values.tolist()[0])  plt.xticks(range(len(date)), date, rotation=90)  plt.show() |