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1 Introduction

First i am sorry to upload lately insead of i upload could not complate all questions because of i tried to read file with C first i found a code from internet to read csv file but i realized that it is not recording data to array truly so i changed my language from c to c ++ which caused started me again and i completed lately

2 Conclusion and question 18:

From my obs. pandemic is getting worse. Since my observations the number of cases has increased over time for example:

Africa 2020-02-14 cases 1

Africa 2021-04-23 cases 4487054

number of $new_cases_smoothedincreased overtime$

 $Afghanistan: 2020-03-05 new_cases 0.429$

 $Afghanistan 2020-05-17 new_cases 323.143$