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Q.2 Modelling using the data :

Since the it is a non-stationary time-series data, we fit the data by sliding a 5 days window across the complete data.

- Hence we obtain different exponential curves for each day.
- The first ~~fit~~ few fits show strong exponential growth for China. Since China has taken some measures, which has flattend the exponential growth curve.
- The red dotted line is the exponential fit for the whole time ~~sere~~ series. It can be ~~cle~~ observed that this fails when considering whole time-series

- Non-stationary behaviour by doubling intervals on day-by-day basis: The doubling intervals provide the number of days until the infected population has doubled.