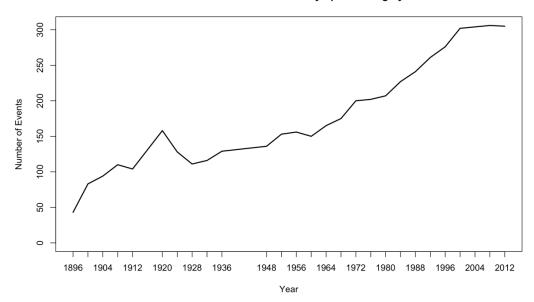
M9_Exercise_LinePlotLinearFit_Abhishek_Jain

The entire R code used when creating the line plot in (1).

Screenshot of the line plot created in (1).

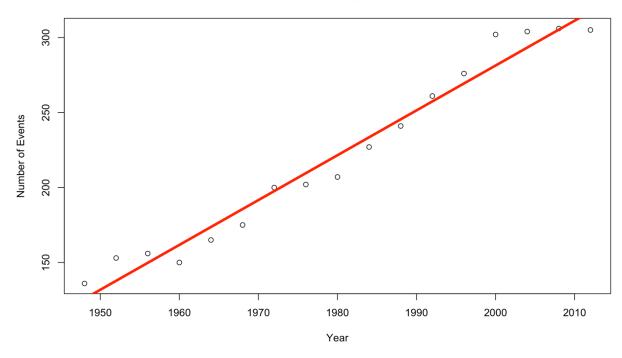
Number of Events at Summer Olympics through years



The entire R code used when creating the data frame in (2), scatter plot in (3), line in (4), and prediction in (5).

Screenshot of the scatter plot created in (3) with the line created in (4).

Number of Events at Summer Olympics from 1950 onwards



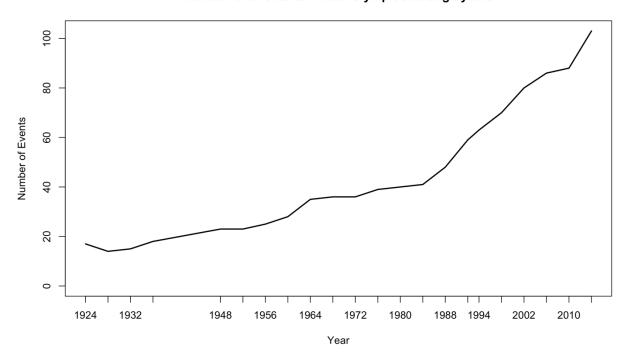
The prediction (answer) made in (5).

> predict(linefit1, list(Year=2040)) 1 400.9412

The entire R code used when creating the line plot in (6).

Screenshot of the line plot created in (6).

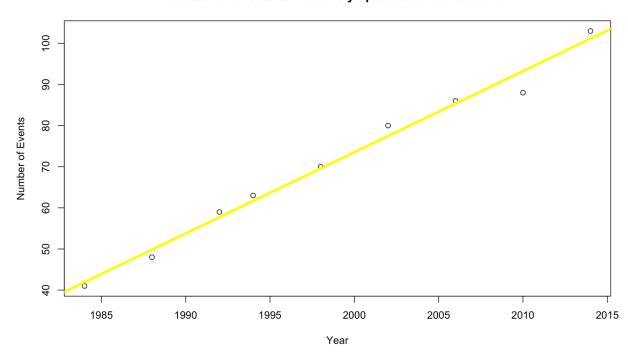
Number of Events at Winter Olympics through years



The entire R code used when creating the data frame in (7), scatter plot in (8), line in (9), and prediction in (10).

Screenshot of the scatter plot created in (8) with the line created in (9).

Number of Events at Winter Olympics from 1984 onwards

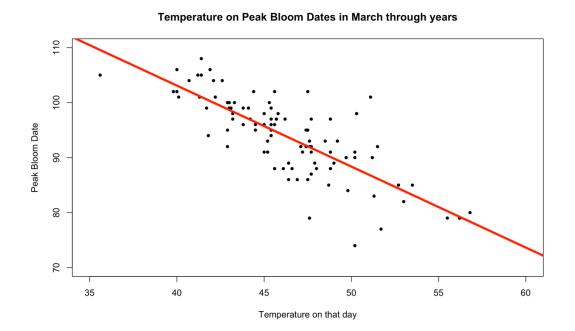


The prediction (answer) made in (10).

> predict(linefit2, list(Year=2040)) 1 152.4854

The entire R code used when creating the scatter plot in (11), and line in (12).

Screenshot of the scatter plot created in (11) with the line created in (12).



Your opinion about the correlation (or lack thereof) between the Cherry Blossom Peak Bloom Date and the Temperature in March.

We can see that the line passes through the data points. We can say that the bloom date and temperature are correlated. As the temperature increases, the bloom date decreases. So higher temperature causes blooming to happen faster. But too high temperatures might not let blooming happen. So, there is a negative correlation between them.