**More Exercises: Weight loss**

Consider a dataset of sequential measurements of a person’s weight while on a diet (the ’weightloss’ dataset, see attached).

1. Read the dataset (‘weightloss.csv’), and convert the ’Date’ variable to the Date class
2. Add a new variable to the dataset, with the subjects’s weight in kilograms (kg) ( kg = 2.204 pounds).
3. Produce a line plot that shows weight (in kg) versus time.
4. The problem with the plot you just produced is that all measurements are connected by a line, although we would like to have line breaks for the days where the weight was not measured. To do this, construct a dataframe based on the weightloss dataset that has daily values. Hints:

• Make an entirely new dataframe, with a Date variable, ranging from the first to last days in the weightloss dataset, with a step of one day

• Using merge, paste the Weight data onto this new dataframe. Check for missing values. Use the new dataframe to make the plot.

1. Based on the new dataframe you just produced, graph the daily change in weight versus time. Also add a dashed horizontal line at y=0