Exercise 1 - Descriptive Statistics in R

The dataset Ex02-1-age-per-country.csv contains the ages of 100 randomly selected people of three different countries A, B and C. Describe the age distribution in the three countries by calculating the statistical measures listed below and discuss possible differences between the countries.

Preparation: Set up a project folder for this tutorial, where you save both the downloaded dataset Ex02-1-age-per-country.csv and the code template Ex02-1-template.R from Moodle.

- a) Central tendency:
 - (i) Arithmetic mean
 - (ii) Median

Additional question: Compare the arithmetic mean and the median per country. What does the difference say about the age distribution?

- **b)** Variability:
 - (i) Range
 - (ii) 1st and 3rd quartile
 - (iii) Interquartile range
 - (iv) Sample variance
 - (v) Coefficient of variation
- c) Graphical representation:

Plot the age distribution for each country using boxplots and histograms. Do the distributions look like you expected them to be (regarding the skewness)?