Lab 9: Part 2

The aim of this part of the lab exercise is to give you practical experience in handling time to event and time series data using R Studio and an R Notebook.

1   Survival

You have the data from a randomised trial comparing two treatments for ovarian cancer. This data is available as part of the `survival` R library.

1. Load the library and the `ovarian` data set.

2. Explore the `ovarian` data. In order to find the details of the columns use the help window in R Studio.

3. Is there a significant difference in survival between patients in the different treatment groups or the performance status?

2   Time Series

You have data that includes the monthly totals of international airline passengers from 1949 to 1960. (This is a modification of the data included in base R called `AirPassenger`)

1. Load the `airp.Rda` R object.

2. Explore and plot the time series using the R object you read in.

3. Using the original R data object `AirPassengers` use the `decompose` function to break the series down and plot it. Interpret the output. Is there are trend in the air passenger numbers?