Lab 6

6.1 Create a data set with (only) such observations from the data set **A** that their numbers are listed in the first row of **A**.

6.2 The i-th row of the data set **tree** contains the numbers of the ascendants of the i-th vertex in a binary tree. Pick a random path in the tree (starting from the root, i.e. the vertex number 1).

6.3 Read the text files: **p1.txt**, **p2.txt**, **p3.txt**, **p4.txt** into data sets.

6.4 The text file **experiment.txt** contains some data which describa a number of repeated experiments. The rows finishing with the word START (STOP) denote the beginning (the end, respectively) of an experiment. All the other rows contain some unimportant data from some intermediate phases of the experiments. Create a data set with the duration times (counted in days) of consecutive experiments.

6.5 Write a data step that reads the text file **fileB.txt** into the data set **B**.

6.6 Write a data step that reads the text file **fileC.txt** into the data set **C**.

6.7 Write a data step that reads the text file **fileD.txt** into the data set **D**.

6.8 Read from the text file **p.txt** into a data set only the rows with numbers listed in the first row of the text file.

6.9 From each line of the text file **gaps.txt** read the first three non-missing values into a data sets. (The selection should be done while reading the values from the text file.)

6.10 The text file **blocks.txt** has an unknown number of four-rows blocks that start from the numbers: 2004, 2005, 2006 or 2007. Create a data set with four variables ($r2004$ - $r2007$) that is a transposition of the data from the text file **blocks.txt**.