2) SAS PROCEDURES

```
/* PROC IMPORT */

/* Use data from a survey on Quantitative methods students */
proc import
        dbms=xlsx  /* The type of file to be imported */
        datafile='/home/username/SAS introduction/Data/Prime ministers.xlsx'
        out=survey /* Give a name to the imported dataset */
        replace;
run;



/* PROC MEANS */

proc means data=survey;  /* Specify the data to be used */
run;

proc means data=survey N MEAN STD;    /* Choose which statistics to include */
run;

proc means data=survey N MEAN STD;
        var age height;  /* Choose which variable to produce statistics for */
run;

proc means data=survey N MEAN STD;
        class sex;         /* Request means broken down by the variable sex */
        var age height;
run;

/* The CLASS statement (above) gives the same result as the BY statement (below),
but CLASS puts the output togehter (BY separates the output) */
proc means data=survey N MEAN STD;
        by sex;            /* Also request means broken down by the variable sex */
        var age height;
run;




/* PROC REG */

proc reg data=survey;
        model height = shoesize;
run;

/* Options can be added to the additional statements (after the proc reg
statement): */
proc reg data=survey;
        model height = shoesize /STB;  /* Add standardized estimates (betas) */
run;
```

```sas
/* PROC UNIVARIATE */

proc univariate data=survey;
        class sex;
        var height;
run;

/* Data always has to be sorted by the by-variable */
proc sort data=survey; by sex; run;

/* Additional options */
proc univariate data=survey;
        class sex;
        var age;
        histogram age /midpoints = 24 28 32 36;
run;
```