1st set SAS assignments

1. Horizontal Merging of DATA Sets

1.1 Make use of a data step to create the SAS data sets stockprices07 and stockprices03 in your working directory. The data set stockprices07 and stockprices03 contain three variables: a stock ticker, prices, and volume. The dataset stockprices07 is from 2007 and stockprices03 is from 2003.

The aim is to merge the data horizontally. For this use the proc sql statement:

```
proc sql;
create table tablename as select
  a.*,
  b.variablename1 variablename2
from stockprices07 a xxx join stockprices03 b
  on a.variablename3=b.variablename3;
quit;
```

xxx join can be: left join, right join, inner join, full join

1.2 Create the data sets in Task a)-d) using proc sql.

a) The resulting data set name1 contains all information of 2007 data set and the price information of the 2003 data set for those stocks that are also available in the data set of 2007. Hint: The data set of 2007 dominates the one of 2003. For the stocks with no 2003 price information a missing value will be assigned.

b) The resulting data set name2 contains all information of 2003 data set and the price information of the 2007 data set for those stocks that are also available in the data set of 2003. Hint: The data set of 2003 dominates the one of 2007. For the stocks with no 2007 price information a missing value will be assigned.

c) The resulting data set name3 contains all information of 2003 and 2007 for all stocks. The variables of both data sets are preserved. Missing values are assigned for the stocks that are not in both data sets.
d) The resulting data set \texttt{name4} contains all information of 2003 and 2007 for those stock that are in both data sets.
2. Modifying and Vertical Merging of DATA Sets

2.1 Delete the variable volume from the stockprices07 and name the data set sp07.

2.2 Rename the variable p in stockprices03 as prices and keep the prices and the ticker symbol and name the data set sp03.

2.3 Merge the sp03 and sp07 by using the set statement in a data step. Name the data set verticalmerge.

2.4 Produce a table with the distinct stock tickers from verticalmerge.