

# Intro to Computational Statistics - Homework 1

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## 1 Problem 1

### 1.1 Part A

#### Changes made to the Document

1. options NODATE
2. options linesize = 78;
3. input Name \$ Score1 Score2 Score3 Score4 Score5 Final;
4. var Name,Score3,Final

#### Output of Table 1.1

**The SAS System**

Obs	Name	Score3	Final
1	Gamma1	10.00	90
2	Delta1	8.00	95
3	Epsilon1	9.75	100
4	Theta1	9.50	100

### 1.2 Part B

#### Output of Table 1.2

Note: This program outputs all the variables, rather than the previous problem, which only outputs Name, Score3, and Final.

**The SAS System**

Obs	Name	Score1	Score2	Score3	Score4	Score5	Final
1	Gamma1	11.25	9.75	10.00	10.0	10	90
2	Delta1	9.50	7.50	8.00	10.0	10	95
3	Epsilon1	11.50	10.00	9.75	3.5	10	100
4	Theta1	12.50	10.00	9.50	9.0	10	100

## 2 Problem 2

Output of Table 2.1

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The SAS System				
Obs	Name	from	to	pounds_million
1	Benjamin Mendy	Monaco	Man City	52.0
2	Alvaro Morata	Real Madrid	Chelsea	58.0
3	Romelu Lukaku	Everton	Man United	75.0
4	Onsmane Dembele	Dortmund	Barcelona	97.0
5	Philippe Coutinho	Liverpool	Barcelona	105.0
6	Neymar	Barcelona	PSG	199.8

## 3 Appendix with Code

```
options NODATE linesize = 78;
data mydata;
input Name $ Score1 Score2 Score3 Score4 Score5 Final;
DATALINES;
Gammal 11.25 9.75 10 10 10 90
Delta1 9.5 7.5 8 10 10 95
Epsilon1 11.5 10 9.75 3.5 10 100
Theta1 12.5 10 9.5 9 10 100
;
run;
proc print data=mydata;
var Name Score3 Final;
run;
```

```
options NODATE linesize = 78;
data mydata;
input Name $ Score1 Score2 Score3 Score4 Score5 Final@@;
DATALINES;
Gammal 11.25 9.75 10 10 10 90 Delta1 9.5 7.5 8 10 10 95
Epsilon1 11.5 10 9.75 3.5 10 100 Theta1 12.5 10 9.5 9 10 100
;
run;
proc print data=mydata;
run;
```

```

options linesize = 78;
data mydata2;
input    Name $              1-18
              from $              20-30
              to      $              32-41
              pounds_million $ 43-47
;
datalines;
Benjamin Mendy      Monaco      Man City      52.0
Alvaro Morata       Real Madrid Chelsea      58.0
Romelu Lukaku       Everton     Man United  75.0
Onsmane Dembele     Dortmund  Barcelona  97.0
Philippe Coutinho   Liverpool  Barcelona  105.0
Neymar              Barcelona  PSG        199.8
;
run;
proc print data=mydata2;
run;

```