

## STA442S08 Solutions to Quiz 6

- (a) Estimated value = \$3763.05  
(b)  $F = 4.11$  or  $t = 2.03$   
(c) Critical value = 6.0277244  
(d) No, this test is not significant as a Scheffé follow-up, at the joint 0.05 level.

- (a)

Store	Cashier	i	ii	ii	ii	ii
1	1	1	1	1	0	0
1	2	1	-1	0	0	0
1	3	1	0	-1	0	0
2	1	-1	0	0	1	1
2	2	-1	0	0	-1	0
2	3	-1	0	0	0	-1

- (b) Store is a random effect.  
(c) Cashier is a random effect.
- (a)  $F = 7.21$   
(b) p-value = 0.0715  
(c) No, the results are not statistically significant at the 0.05 level.  
(d) No conclusion.

You get zeros for questions 1 and 3 if

- you didn't hand in both .log and .lst files;
- there were no date and time on the files;
- the date and time on .log and .lst files were not the same;
- you used other's account to produce the files;
- there were errors in your .log file or;
- there were warnings in your .log file.

**You are *strongly* recommended to use SAS on tuzo.**