

Stat 424 Final Project

Appendix

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Dataset: (The source of the dataset is from the textbook *Statistical Principles in Experimental Design*, written by *Winer*)

	subjects	Morning		Night		Total	
		bl pr	bl temp	bl pr	bl temp	bl pr	temp
A1(Type1)	1	3	8	4	14	7	22
	2	5	11	9	18	14	29
	3	11	16	14	22	25	38
A2(Type2)	4	2	6	1	8	3	14
	5	8	12	9	14	17	26
	6	10	9	9	10	19	19
A3(Type3)	7	7	10	4	10	11	20
	8	8	14	10	18	18	32
	9	9	15	12	22	21	37

Means Table:

	TRT1	TRT2
GROUP1	11.67	18
GROUP2	9	10.67
GROUP3	13	16.67

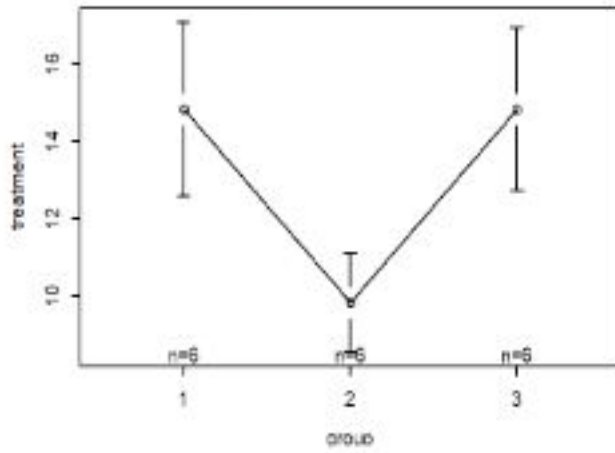
Grand Mean(y...)	13.17
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Treatment 1(y.1.)	Treatment 2(y.2.)
11.22	15.11

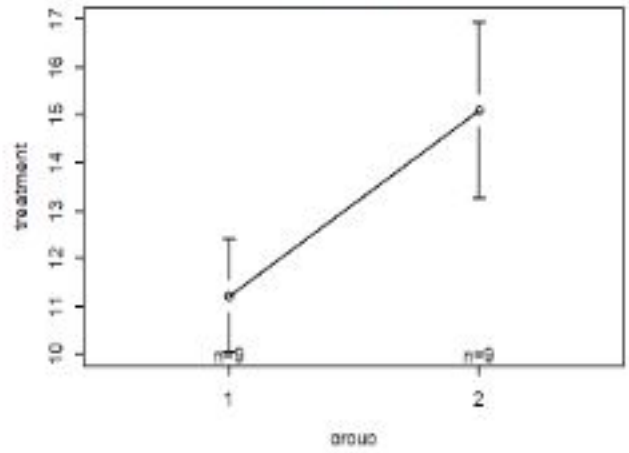
Group1 Mean(y1 _{..})	14.83
Group2 Mean(y2 _{..})	9.83
Group3 Mean(y3 _{..})	14.83

Plots:

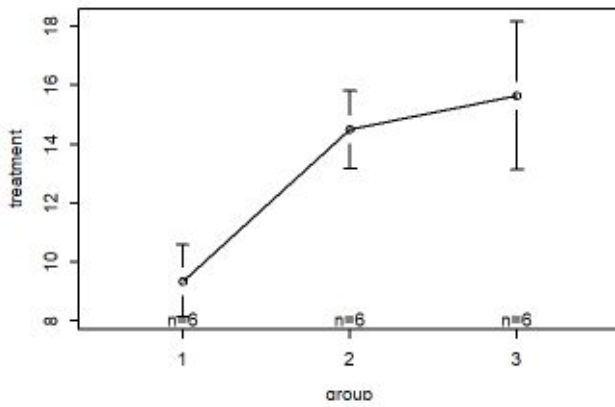
Main Effect Plot of G



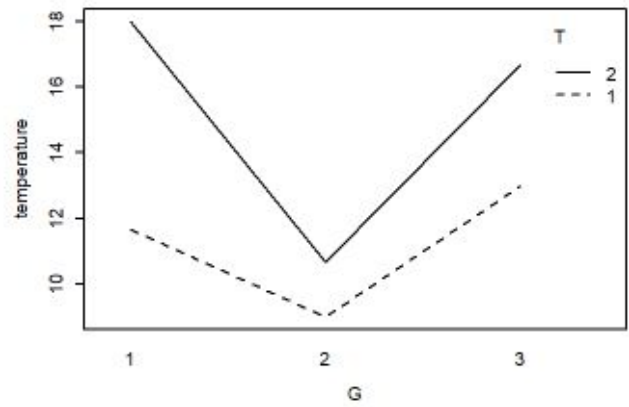
Main Effect Plot of T



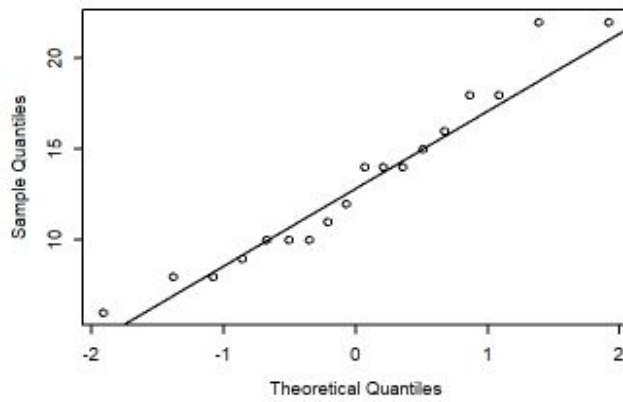
Main Effect Plot of S



Interaction between G and T



QQ plot



plot fitted vs residuals

