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Code: STAT455-HW04-3.9A.sas

```
/*Homework 03 Problem 3.9a*/  
title 'STAT455-HW03 Problem 3.9(a)';  
data treatment;  
do diag = 1 to 5;  
do drug = 1 to 2;  
input count @@;  
output;  
end;  
end;  
datalines;  
105 19  
8 47  
12 52  
2 0  
18 13  
;  
run;  
proc genmod data=treatment;  
class diag drug;  
model count=diag drug/dist=poisson link=log;  
output out=obstat pred=pred stdreschi=stdreschi;  
run;
```

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Results: WORK.OBSTAT

Obs	diag	drug	count	pred	stdreschi
1	1	1	105	65.1449	9.65817
2	1	2	19	58.8551	-9.65817
3	2	1	8	28.8949	-6.30533
4	2	2	47	26.1051	6.30532
5	3	1	12	33.6232	-6.17598
6	3	2	52	30.3768	6.17598
7	4	1	2	1.0507	1.34910
8	4	2	0	0.9493	-1.34911
9	5	1	18	16.2862	0.65423
10	5	2	13	14.7138	-0.65423