```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;
```