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/*Homework 03 Problem 3.15*/  
title 'STAT455-HW03 Problem 3.15(a)(b) Woolf CI and Exact Cornfield';  
options ls=72 ps=max nocenter;  
data cancer;  
input Group $ Normal $ count;  
datalines;  
Treatment Yes 7  
Treatment No 8  
Control Yes 0  
Control No 15  
;  
run;  
proc freq data=cancer order=data;  
weight count;  
table Group*Normal/norow nocol nopercnt nocum;  
exact or/alpha=0.05;  
run;  
  
title 'STAT455-HW03 Problem 3.15(c) Profile Likelihood';  
options ls=72 ps=max nocenter;  
data cancer;  
input Group $ Normal $ count;  
datalines;  
1=Y 1=Y 7  
1=Y 2=N 8  
2=N 1=Y 0  
2=N 2=N 15  
;  
run;  
proc logistic data=cancer;  
class Group (param=ref ref="2=N");  
weight count;  
model Normal=Group /clodds=pl;  
run;
```