In this assignment you will run a logistic regression analysis to examine the effects of living in public housing, growing up poor, and the number of children in the household on the likelihood of being in poverty. Use SAS to complete the project. The SAS code is given below.

**Libname...**

```
Data a; set in.psid9209;
if head=1;
if gupoor07=1 or gupoor09=1 then gupoor=1; else if gupoor07=. and gupoor09=. then gupoor=. ; else gupoor=0;
if inpov>=0 and kids>=0 and pubhouse>=0 and gupoor>=0;

proc logist descending; model inpov=kids pubhouse gupoor;
weight weight /normalize;
```

**Questions:**

1. What is the probability of being in poverty for someone with 2 kids, who lives in public housing and who grew up poor?
2. What is the probability of being in poverty for someone with 0 kids, who does not live in public housing and who did not grow up poor?
3. What are the ODDS of being in poverty for those who grew up poor relative to those who did not grow up poor?
4. What are the ODDS of being in poverty for those who have 2 kids relative to those who have 1 kid?