PROC LOGISTIC: fit univariate model with each variable.
Create data set with covariates where $p < \&PVALUEI$.

PROC LOGISTIC: fit multivariate model.
Identify max p-value.
Is max $p < \&PVALUER$ ?

NO

YES

Remove variable.
PROC LOGISTIC: fit reduced model
Identify max $\Delta \beta$.
Is $\Delta \beta > \&CHBETA$ ?

NO

YES

Keep variable. Evaluate next variable.
Delete variable.

PROC LOGISTIC: test associations with each variable originally not selected (include preliminary model variables).
Reduce the model using A and B.

FINAL MAIN EFFECTS MODEL

Figure 1. %PurposefulSelection macro flow chart.