## STA-363-Lab-5

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```
#import the data
source("http://www.openintro.org/stat/data/cdc.R")

#change the variable
cdc$wtdesire<- cdc$weight -cdc$wtdesire</pre>
```

## Question 1

Based on this, how many models do you think we fit in Stage 1 (Step 1) of BSS? Hint: Think carefully here. Some of the variables are categorical with more than two levels. Each level counts as a possible X.

We think when we fit the models in the Stage 1 of BSS, we would fit 11 models with 15 possible Xs. Each numeric variables can be served as a possible X to fit a model. There are 3 numeric variables among all variables. For the categorical variables with only 2 levels, we can use one level between the two to represent the variable and set it to 1 when the indivial is in this level and 0 otherwise. There are 4 categorical variables in this dataset. In addition, the variable genhlth is a categorical variable with 5 levels, which are goor, gair, good, and good, and good, and each of them can served as a separate variable choice for the model. Hence, we have good and good are good and good are good and good are good and good