R Code for Examples in the book
"Statistics: The Art and Science of Learning from Data"
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 11

Example 5: Headache from Flu Vaccine – Testing Homogeneity

Reading in data

```
headaches <-
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapter11/headache_raw.csv)
attach(headaches) # so we can refer to variable names
```

To make a table from the raw data

```
mytable <- table(drug, outcome)
mytable # viewing the table

##          outcome
## drug      mild moderate severe
##   active   486      113     16
##   placebo  355       80      5
```

To perform a chi-squared test for homogeneity

```
chisq.test(mytable)

##
##  Pearson's Chi-squared test
##
## data:  mytable
## X-squared = 2.8601, df = 2, p-value = 0.2393
```