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

```
data <- read.csv(file='https://img1.wsimg.com/blobby/go/bbca5dba-4947-4587-
b40a-db346c01b1b3/downloads/HeadacheRaw.csv?ver=1657293808775')
attach(data) # 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
```