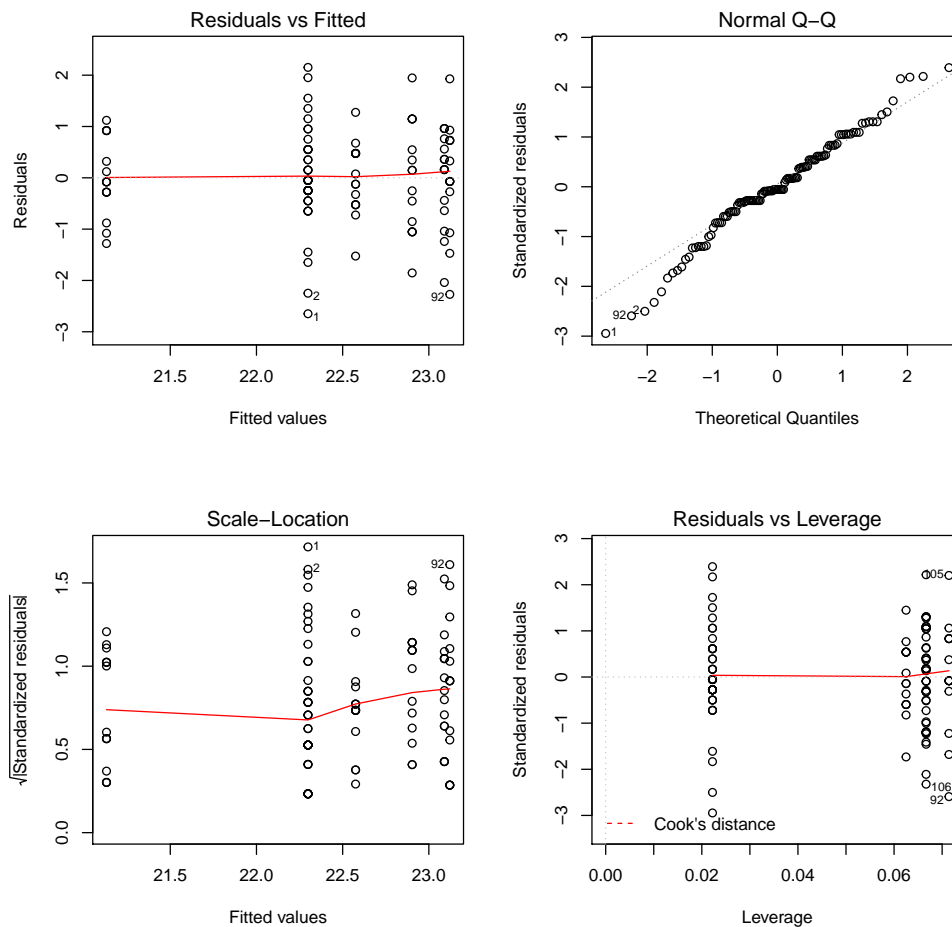# STAT 217: Quiz 9

Name: _____

Cuckoos are known to lay their eggs in the nests of other (host) birds. The eggs are then adopted and hatched by the host birds. These data were originally collected by O. M. Latter in 1902 to see how the size of a cuckoo egg is related to the species of the host bird.

```
fit.bird <- lm(cuckoo$length ~ cuckoo$species)
```

```
anova(fit.bird)
```

To investigate the assumptions, we need to look at the diagnostic plots for the ANOVA.

```
par(mfrow = c(2,2))
plot(fit.bird)
```

```
eij <- residuals(fit.bird)
```

1. Were the assumptions and conditions to run a parametric ANOVA met?

    - Independence:

    - Equal Var:

    - Normal Residuals:

    - Randomization and Representative: