

ST 512 Homework assignment #2
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1. Obtain the residuals from a simple linear regression of bodyfat percentage on midarm circumference (x_2) using the dataset “`bodyfat.dat`”. Obtain a plot of the empirical quantiles of the residuals (sorted residuals) against the corresponding quantiles from the standard normal distribution. That is, obtain a normal q-q plot of the residuals from the simple linear regression of bodyfat on midarm. In computing the normal quantiles, indicate how you avoided having to compute either the 0^{th} or the 100^{th} quantile of the standard normal distribution.
2. Rao 8.3 and Rao 8.9
3. Rao 8.8
4. Rao 12.3a
5. Rao 12.5ab also, estimate the regression parameters using Table 8.1
6. Refer to Rao 12.6b, estimate the contrasts described in parts *i* and *ii*.
7. Rao 12.10bdef
8. Rao 12.11d
9. Rao 12.18abcd(try with 90%)fgh(obtain a 95% prediction INTERVAL)
(see the code in `oysters.sas` on the website to read in the data)