**Final Assignment\_Group11**

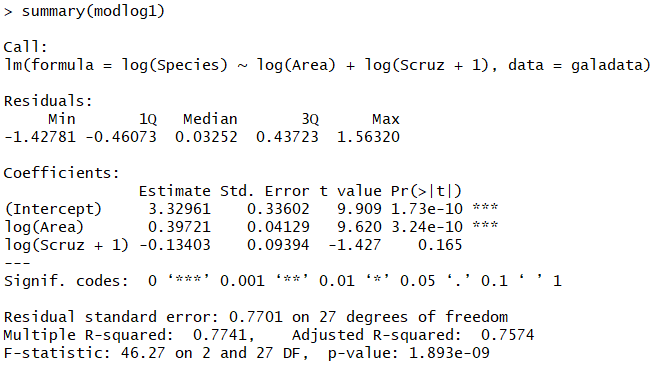
**Name:** Jiamian Liu **VU student number:** 2632301

**Name:** Xiaoyu Yang **VU student number:** 2640948

**Name:** Fangzheng Lyu **VU student number:** 2644757

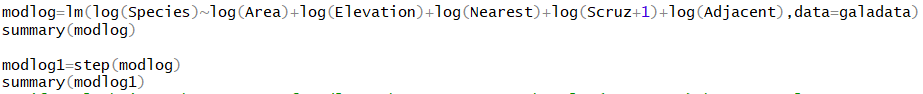
**Task 6**

Firstly, we get the summary of modlogl:



The p-value of log(Scruz + 1) is 0.165 > 0.05 (cannot reject H0), so variable of log(Scruz + 1) is not significant. The p-value of log(Area) is 3.24e-10 < 0.05 (reject H0), so variable of log(Area) is significant.

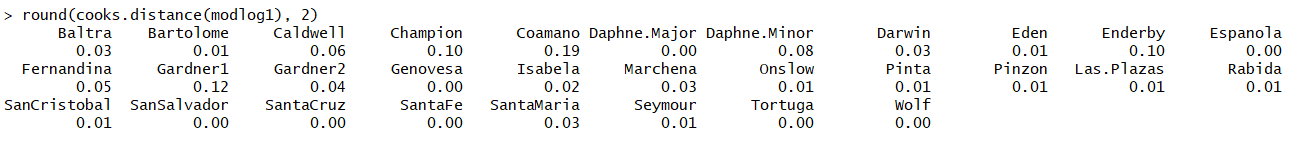
Code of Task 6:



**Task 7**

**Task 8**

The result of cook distance:



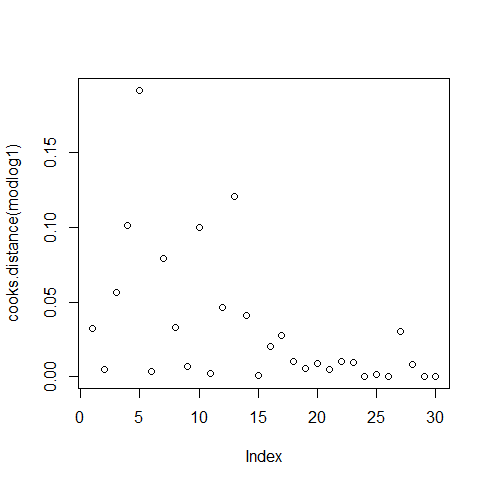
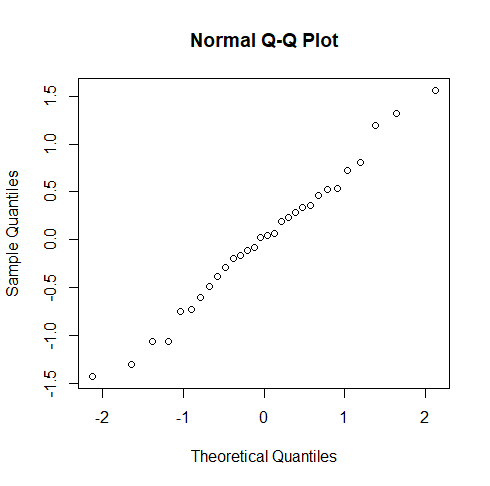


Figure values of cook distance



Firgure qqnorm plot of the residuals

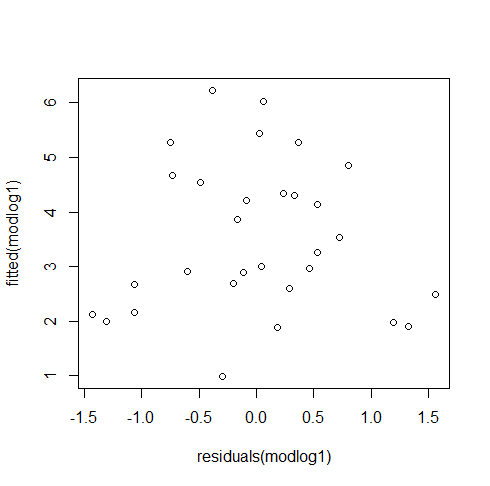


Figure Residuals versus fitted values

Code of 8:

