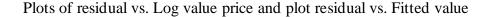
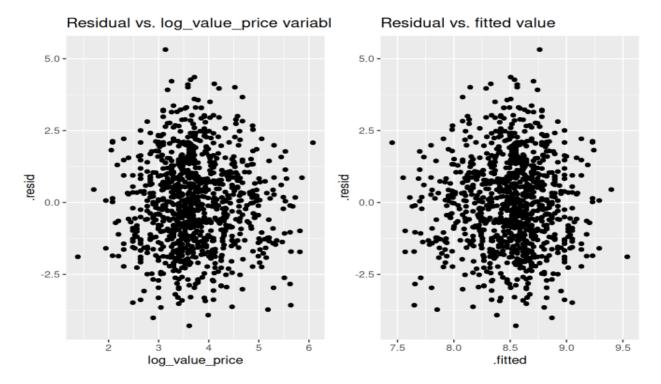
## Appendix J

## L.I.N.E. assumptions analysis for log value price variable

## Linearity Assumption for log value price variable

Both plots, Residual vs. predictor and Residual vs. fitted values, show no discernible pattern, indicating no violation of linearity assumptions. Therefore, it can be concluded that log love and log value price exhibit a linear relationship, supporting linear regression techniques.





## Independence assumption for log value price variable:

The residual vs. order plot displays a scattered distribution of residuals, suggesting no discernible pattern or trend. This random sequence sustains the independence assumption between log love response and log value price predictor, indicating no violation of this assumption in the regression model.

**Figure 18.**Residual vs order for log value price

