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value of the regression line. For example, from the dataset, we have a 50 year-old person with systolic BP of

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164 but the fitted-value from the regression line is 168.3 (see Fig. 2). Thus the residue for this person is -4.3 (164 - 168.4). For this dataset, we will have 55 residual points. For the linear regression model to be valid, there

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Chapter 3 Simple Linear Regression. Though we've discussed the relationship between tests of means and simple linear regression, we will really consider simple linear regression in a much broader context (one where both the

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Recall that with linear regression, $(E(Y_i) = \beta_0 + \beta_1 X_i)$ which might be a reasonable idea to apply to the count data; however, as seen above, if the mean of the distribution is modeled strictly as a linear function in (X) , then the line has the potential to predict negative counts and the variability will not be a function of (X) if

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