

Prof. Welsh  
Bioinformatics

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## Homework 5 Data Analysis

2. The number of vertices in the graph: 9982  
The number of edges in the graph: 9981

4. The number of vertices in the graph: 21084  
The number of edges in the graph: 21665

5. The number of edges and vertices are different between these two simulations because of the error change in each simulation. The first simulation had no chance of error (0.0) and the second simulation had a 0.01 chance of error. Even a small chance of error in these large data sets can produce extremely varying results as that small chance of error is evaluated over hundreds or thousands of reads.