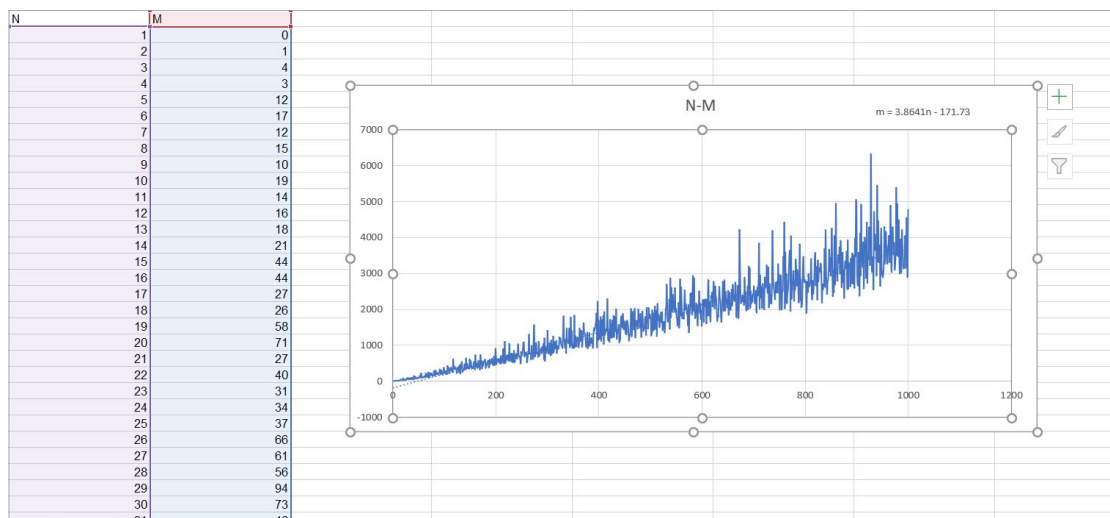


1. My conclusion about the relationship between the number of objects (n) and the number of pairs (m) generated to accomplish this:

$$m = 3.8641n - 171.73$$

2. My evidence to support that relationship:

The number of objects (n) ranged from 1 to 1000. In order to better analyze the results, I created DownloadExcel.java to export 1000 sets of experimental data into an Excel spreadsheet. Then I used Excel's 'scatter plots with smooth lines' to get the trend equation. The equation is the expression of the curve fitting function. Picture 1-1 shows the Excel sheet.



picture 1-1 experimental data in Excel