

Fall 2019 CIS 3362 Homework #2 Grading Criteria

Questions #1 and #2, worth 25 points each

If a cipher IS NOT broken, but reasonable efforts are described to try to break it, then give a maximum of 15 out of 25.

If a cipher is broken, but the description/write up is inadequate to justify the results, then in between 15 and 20 points, depending on how incomplete you think the write up is. If it's broken and the justifications and steps described are reasonable give full credit. You can also award in between 21-24 points, depending on how complete you think the description is.

Question #3 (20 pts)

10 points for the program. Make sure you glance at it and that it's calculating the correct thing. If the program is there but it's calculating something incorrectly, take off whatever credit you think is appropriate. The fraction for each is worth 2 pts and the decimal is worth 1 pt each. The explanation as to whether they are surprised or not is worth 4 pts with justification. One could say they were surprised by saying they expected it to be higher or closer to .067. One mitigating factor here is that both texts were small, so the "potential error" is greater when the n in question, number of letters, is smaller. As long as the response is thoughtful and shows that they understand that an IofC is invariant under substitution, give them full credit.

Question #4 (30 pts)

At least two approaches here. If they solve it and explain how they did it clearly, give them full credit. Make sure the attached code matches their explanation. Alternately, they could have used either of the online tools (or another tool that does something equivalent) and plugged in the appropriate keywords to see the potential decryptions. In the latter case, it would be necessary to do the IofC test to reduce the amount of items to do by trial and error. Give partial credit as you see fit.