Julia Sterling

- 1. Compute $5^{143} \pmod{1565}$
- 2. Show the Euler's Theorem holds in the case where a = 67 and n = 143. That is show that $67^{\phi(n)} \equiv 1 \pmod{n}$.
- 3. Show that 6601 is a Carmicheal number.
- 4. (Start on Friday) Suppose you recover the following message fragment: 17070 from Alice to Bob. Break it knowing it was enciphered with RSA and the public keys are n = 18373 and enciphering key e = 1441. Once you all break it and combine your answers with your classmates in alphabetic order by your last name then you will get the total message.
- 5. Explain how you have divided up the work in your project. Who is doing what?