- 1. Compute $5^{107} \pmod{1121}$
- 2. Show the Euler's Theorem holds in the case where a=131 and n=143. That is show that $131^{\phi(n)} \equiv 1 \pmod{n}$.
- 3. Show that 6601 is a Carmicheal number.
- 4. (Start on Friday) Suppose you recover the following message fragment: 9081 from Alice to Bob. Break it knowing it was enciphered with RSA and the public keys are n=12233 and enciphering key e=7499. 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?