1. Consider the affine encryption cipher using A=1, B=2, C=3, … given by C=3p+2(mod26). Give a decryption cipher(equation) and show that it works by first encrypting and then decrypting and letter T.
2. Encrypt the word ”GO” using RSA with prime numbers p=13, q=17, and e=11.
3. Use the extended Euclidean Algorithm to solve for the decryption exponent d.
4. Use fast modular exponentiation to encrypt the letters “G” and O”
5. Check that parts a and b are correct by decrypting the cyphertext.
6. I sent the following word, encrypted with the public encryption key (47, 573, 571). Decrypt the message. (Hint: it is the best game ever)

7002 11963 21869 2571