Problem Set 5
Due: Thursday, November 21

Work the following problems. A subset of the problems will be graded. Be sure to adhere to the expectations outlined in the *Problem Set Guidelines Sheet*.

(1) An investigative reporter came across the following message recently:

   1214   0556   3545   4089   1604   1128   1631   0313   3205   1004   1490   3646

   She says that she was told it was encoded using something called *RSA public key cryptography* with keys $e = 3299$ and $n = 4171$. She has no idea what this means. Decode the message for the reporter. Be sure to explain exactly what you did to decode the message.

(2) Using public keys $n = 1537$ and $e = 47$, encode the message "YES WAY" with RSA public key cryptography.