

3.2 Question 2

Suppose Bob uses the RSA cryptosystem with a very large modulus n for which the factorization cannot be found in a reasonable amount of time. Suppose Alice sends a message to Bob by representing each alphabetic character as an integer between 0 and 25 ($A \rightarrow 0, \dots, Z \rightarrow 25$) and then encrypting each number separately using RSA with large e and large n .

3.2.A Is this method secure?

3.2.B If not, describe the most efficient attack against this encryption method.