

- `text_to_int`: takes in a string and returns an integer which can be used in RSA.
- `int_to_text`: takes in an integer and returns the corresponding string.

2 Small Message Space Attack

Imagine that you are a government agent trying to determine when your neighboring country, Malland, will attack. Open `part2_ciphertext` to find a “textbook RSA” ciphertext sent by Malland to its ally, Horridland. You know that the Mallanders are likely to be saying one of three things:

1. "attack tomorrow at dawn",
2. "attack just before dusk", or
3. "attack early next week".

The file `part2_key.pub` contains Horridland’s public key. Use this knowledge to figure out what the message is.

What would you do to prevent Malland from executing the same attack on ciphertexts *you* send?

The assignment: edit the code in `attackRSA.py` to accomplish the above goal