Asymmetric Encryption Exercise



- Generate a pair of 2048bit RSA keys. Private key must be protected by a password.
- Write a "seal" program, which:
 - reads the public key and a file to encrypt;
 - encrypts the file with asymmetric encryption (AES-128 in CBC);
 - writes in another file: the encrypted symmetric key, the initialization vector, the ciphertext.

- Write an "open" program, which:
 - reads the private key;
 - reads the encrypted symmetric key, the initialization vector and the ciphertext from a file;
 - decrypts them;
 - writes the plaintext in another file;

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