

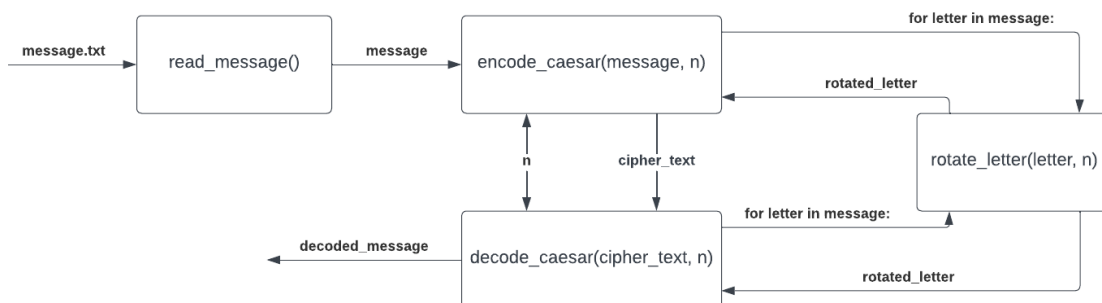
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Collaborators: None  
Extension: No  
Sources:



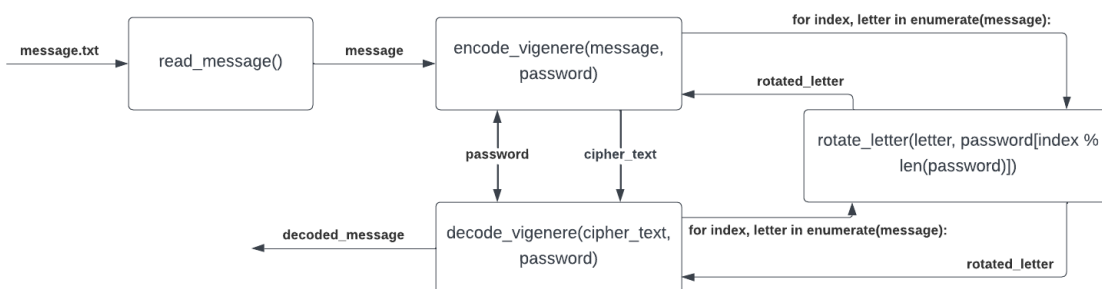
## Lab 3: Code Cracking

### Part 0: Design (5 points)

#### Cesar Cipher

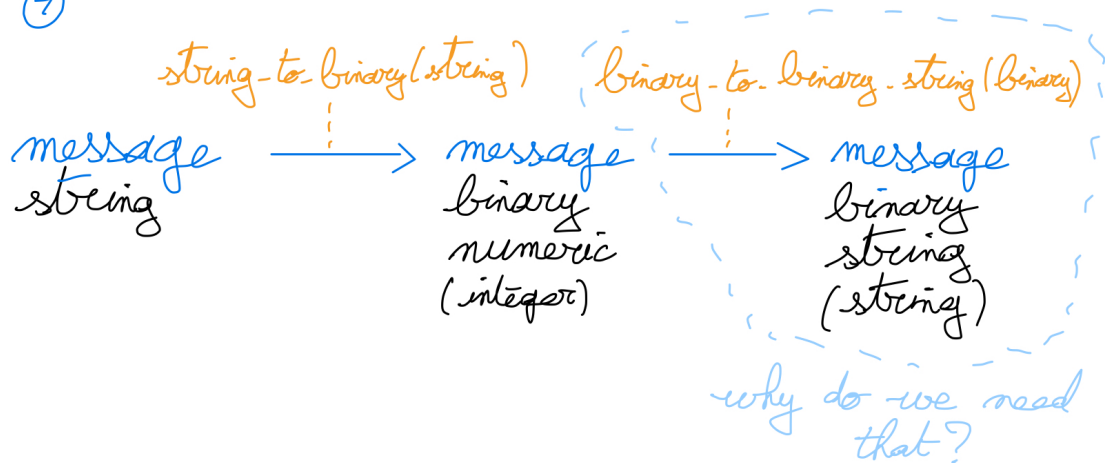


#### Vigenere Cipher

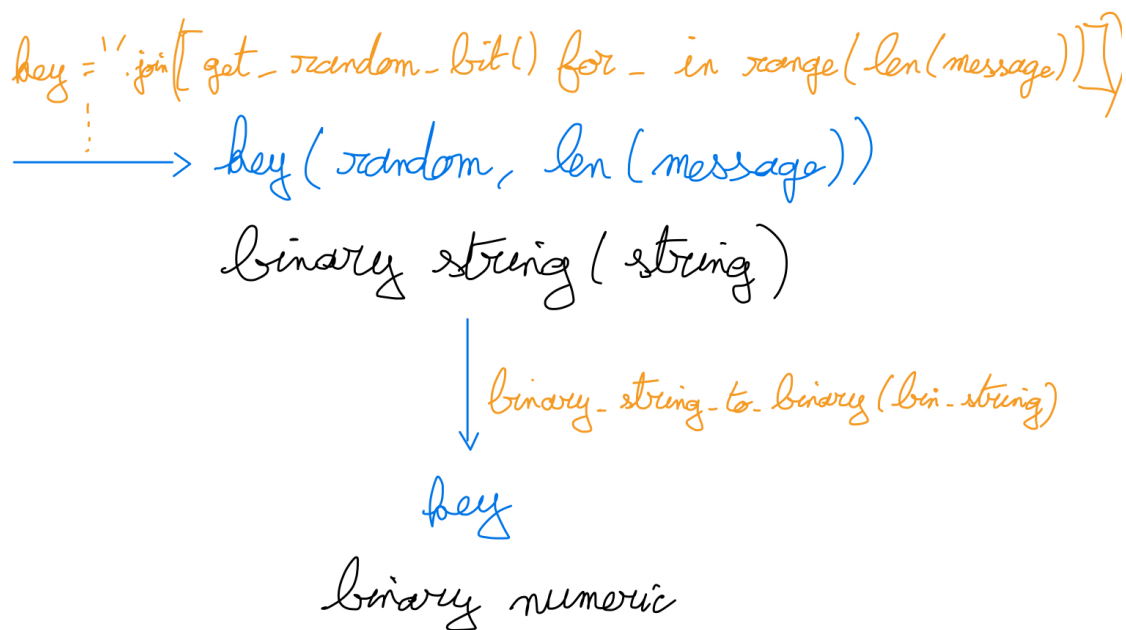


Encoding :  $\text{encode\_otp}(\text{message})$

①



②



③

message XOR key  
numeric numeric

return cypher-text, key  
random number

Decoding: decode-otp(cypher-text, key)

cypher-text XOR key

↓  
decoded-message  
(binary numeric)

↓ binary-to-string(n)  
decoded-message  
(string)