import base64  
import hashlib  
from Crypto.Cipher import AES  
  
class AES256:  
 def \_\_init\_\_(self, key):  
 self.key = hashlib.sha256(key.encode()).digest()  
 self.iv = b'\x0e\xb9e?\xd54b\x9c\xe5\x00p\xf9\xd8\xec.\xa4'  
  
 def encrypt(self, plaintext):  
 cipher = AES.new(self.key, AES.MODE\_CBC, self.iv)  
  
 padding\_length = 16 - (len(plaintext) % 16)  
 plaintext += chr(padding\_length) \* padding\_length  
  
 ciphertext = cipher.encrypt(plaintext.encode())  
 return base64.b64encode(self.iv + ciphertext)  
   
 def decrypt(self, ciphertext):  
 ciphertext = base64.b64decode(ciphertext)  
  
 iv = ciphertext[:16]  
 cipher = AES.new(self.key, AES.MODE\_CBC, iv)  
  
 plaintext = cipher.decrypt(ciphertext[16:]).decode()  
 padding\_length = ord(plaintext[-1])  
 return plaintext[:-padding\_length]