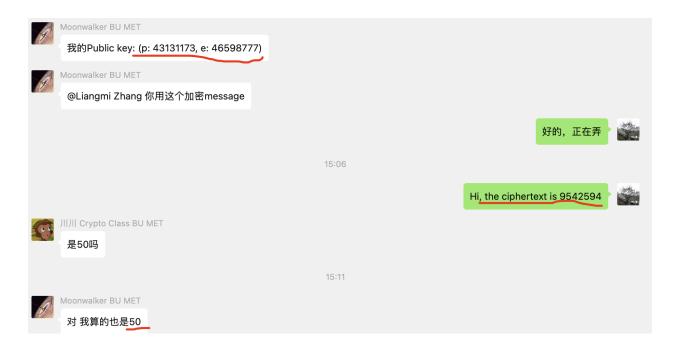
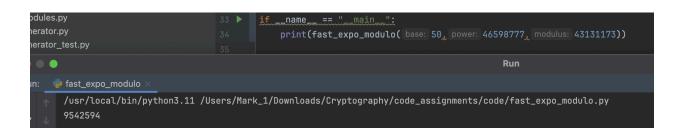
**Exchange and Computation History** 

(I'm the guy on the right in the screenshots)

## **RSA**

## I'm Alice





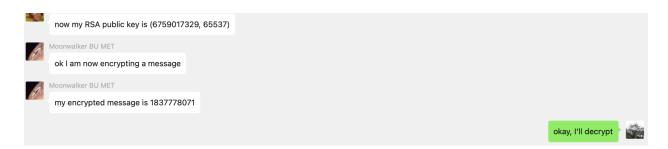
I'm Bob

Public key generation

# Message Decryption:



# I'm Eve



```
Run: break_rsa_with_pollard_rho( public_key: (6759017329, 65537), ciphertext: 1837778071))

Run: break_rsa ×

// /usr/local/bin/python3.11 /Users/Mark_1/Downloads/Cryptography/code_assignments/code/break_rsa.py

178
```

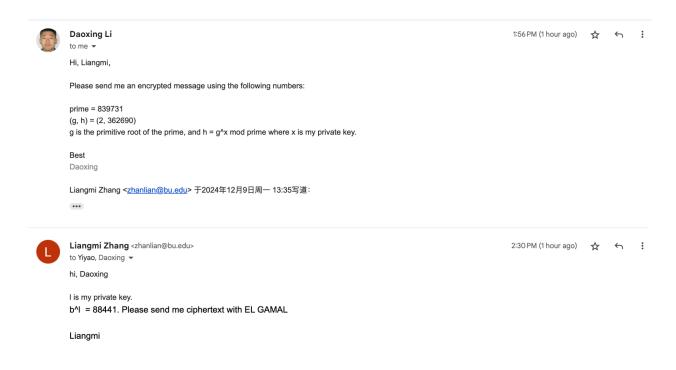
#### **EL GAMAL**

I'm Alice

```
prime = 80687 (b,b^r) = (26833,55116)
```

b is the primitive root of p and r is my private key.

## Private Key Calculation:



# Decryption:

I'm Eve