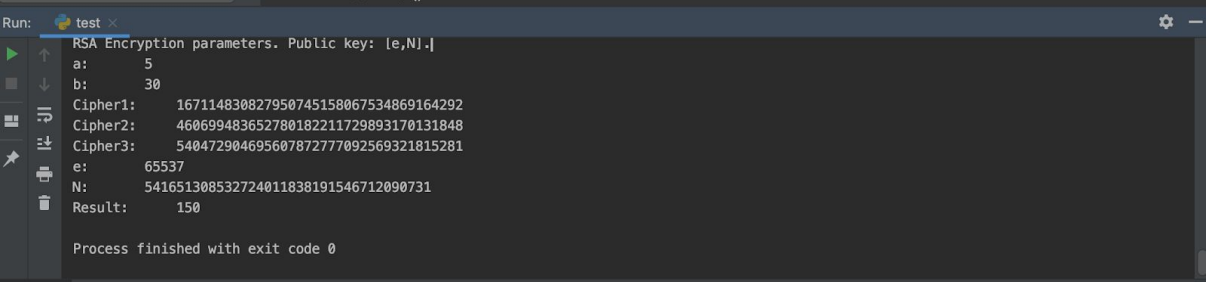


## RSA multiplications

The longest part of the code is about generating two correct large enough prime  $p$  and  $q$ . In our example, we use 60bits numbers and Rabin Miller algorithm to check if it is prime or not..

Before that, we got  $n$  by multiplying  $p$  and  $q$ . And calculate  $N$  by using the inverse and exponent  $e = 65537$ .

On the picture below we can see the output of the code.



```
Run: test x
RSA Encryption parameters. Public key: [e,N].
a: 5
b: 30
Cipher1: 167114830827950745158067534869164292
Cipher2: 460699483652780182211729893170131848
Cipher3: 540472904695607872777092569321815281
e: 65537
N: 541651308532724011838191546712090731
Result: 150

Process finished with exit code 0
```