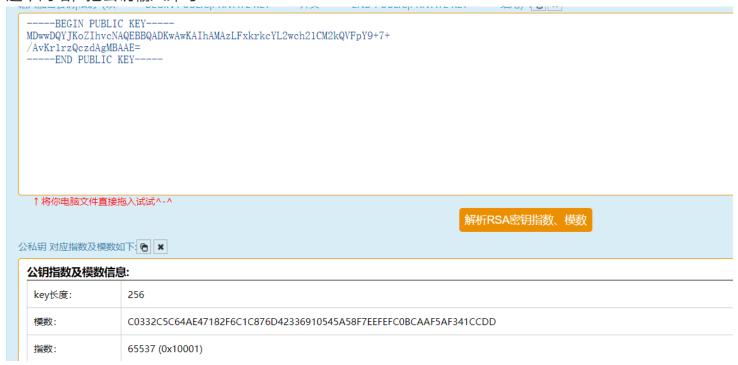
这是一道rsa题目 已知公钥和密文,求解明文 rsa的题型已经很明显,网上有一堆总结rsa的 rsa原理网上也是一堆,可以去搜搜

根据公钥求e, n

http://tool.chacuo.net/cryptrsakeyparse

这个网站, 把公钥输入即可



根据n求p, q

http://factordb.com/index.php?

query=3657953858329972560169377409276323193932232502492261282807076127506439748541 66569495946441349

这个网站可以求解p, q

		Result:
atus <u>(?)</u>	digits	number
	77 (show)	$\underline{869344822917}_{<77>} = \underline{285960468890451637935629440372639283459}_{<39>} \cdot \underline{304008741604601924494328155975272418463}_{<39>}$

求明文

现在知道了e,n,p,q,c 可以求解明文了 代码如下:

```
import gmpy2
import rsa

e = 65537
n = 86934482296048119190666062003494800588905656017203025617216654058378322103517
p = 285960468890451637935629440372639283459
q = 304008741604601924494328155975272418463

phin = (q-1)*(p-1)
d = gmpy2. invert(e, phin)

key = rsa. PrivateKey(n, e, int(d), p, q)

with open("./flag.enc", "rb+") as f:
    f = f.read()
    print(rsa. decrypt(f, key))
```

得到flag