

Buuctf RSAROLL 题解

原创

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题目内容如下:

题目介绍:

RSA roll! roll! roll!

Only number and a-z

(don't use editor

which MS provide)

```
{920139713,19}
```

```
704796792
```

```
752211152
```

```
274704164
```

```
18414022
```

```
368270835
```

```
483295235
```

```
263072905
```

```
459788476
```

```
483295235
```

```
459788476
```

```
663551792
```

```
475206804
```

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459788476
```

```
428313374
```

```
475206804
```

```
459788476
```

```
425392137
```

```
704796792
```

```
458265677
```

```
341524652
```

```
483295235
```

```
534149509
```

```
425392137
```

```
428313374
```

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425392137
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341524652
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458265677
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263072905
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483295235
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```
828509797
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341524652
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425392137
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475206804
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428313374
```

```
483295235
```

```
475206804
```

```
459788476
```

```
306220148
```

如上得知N和e

```
D:\tools\toolssss\crypto\yafu-1.34
```

```
λ yafu-x64.exe factor(920139713)
```

```
fac: factoring 920139713
```

```
fac: using pretesting plan: normal
```

```
fac: no tune info: using qs/gnfs crossover of 95 digits
```

```
div: primes less than 10000
```

```
fmt: 1000000 iterations
```

```
Total factoring time = 0.0070 seconds
```

```
***factors found***
```

```
P5 = 49891
```

```
P5 = 18443
```

```
ans = 1
```

```
D:\tools\toolssss\crypto\yafu-1.34
```

```
λ
```

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编写脚本得到:

```
# coding:utf-8
import gmpy2
N,p,q,e=920139713,18443,49891,19
phi = (p-1)*(q-1)
d=gmpy2.invert(e,phi)
result=[]

with open("c.txt","r") as f:
    for c in f.readlines():
        c=c.strip('\n')#去掉列表中每一个元素的换行符
        result.append(chr(pow(int(c),d,N)))

flag = ''
for i in result:
    flag += i
print flag
```

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得到flag{13212je2ue28fy71w8u87y31r78eu1e2}



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