



```
n=419735662257669656449056906068624008888418711356643013446194513077090682518789439467284146735079701594072
c=329817686269717538993572242014386700097090672311062548480285081063481464782757203491339197264039944641599
p = 64310413306776406422334034047152581900365687374336418863191177338901198608319
```

根据代码，我们不难看出，这是典型的rsa加密

直接求出明文的数值

```
from Crypto.Util.number import inverse,long_to_bytes

n=419735662257669656449056906068624008888418711356643013446194513077090682518789439467284146735079701594072
c=329817686269717538993572242014386700097090672311062548480285081063481464782757203491339197264039944641599
p = 64310413306776406422334034047152581900365687374336418863191177338901198608319
q=n//p
e=23
phi=(q-1)*(p-1)
d=inverse(e,phi)
m = pow(c, d, n)
print(m);
//m=2976168736142380455841784134407431434784057911773423743751382131043957
//m="ndios_;9kgE;WK8e;W?gWn<\;k|nu"
```

我们接着观察

key是一个随机值

但是有范围的

我们直接暴力枚举

```
import random
import hashlib
import math
from Crypto.Util.number import inverse,long_to_bytes

n=419735662257669656449056906068624008888418711356643013446194513077090682518789439467284146735079701594072
c=329817686269717538993572242014386700097090672311062548480285081063481464782757203491339197264039944641599
p = 64310413306776406422334034047152581900365687374336418863191177338901198608319
q=n//p
e=23
phi=(q-1)*(p-1)
d=inverse(e,phi)
m = pow(c, d, n)
print(m);
m="ndios_;9kgE;WK8e;W?gWn<\;k|nu"
for key in range(11):
    flag=""
    for i in range(len(m)):
        flag+=chr(ord(m[i])^key)
    print(flag)
```

```
j`mkw[?=ocA?S0<a?S;cSj8X?oxjq
kaljvZ><nb@>RN=`>R:bRk9Y>nykp
hboiuY=?maC=QM>c=Q9aQh:Z=mzhs
icnhtX<>l`B<PL?b<P8`Pi;[<l{ir
flag{W31coM3_C0m3_7o_f4T3ctf}
gm`fzV20bnL2^B112^6n^g5U2bug|
```

直接出flag

打了这么多比赛，还是菜。

很多题目赛后根本没复现，真是失败的菜鸡，呜呜呜。

校内可以交流的师傅太少，听说最近联合战队在招新，准备去试试。