

RSA Noob

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These numbers were scratched out on a prison wall. Can you help me decode them?

https://mega.nz/#!aI8iDSYB!s5oIEDK5zZmYdx1LZU8s4CmYqnynvU_aOUvdQojJPJQ

e: 1
c: 9327565722767258308650643213344542404592011161659991421
n: 245841236512478852752909734912575581815967630033049838269083

Flag: CTFLearn{b3tter_up_y0ur_e}

Writeup:

Since e is 1, it makes things easier. The possible plaintext is c, c+n, c+2n..... etc.

By doing a wild guess, let's assume m = c.

Converting the c decimal to hex and then ASCII, we got the following result.

decimal -> hex =
9327565722767258308650643213344542404592011161659991421 ->
61626374667B6233747465725F75705F793075725F657D

hex -> ascii =
61626374667B6233747465725F75705F793075725F657D -> abctf{b3tter_up_y0ur_e}

files

