

More Fun with Prime Numbers

Final Challenge

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Final Challenge

- The **RSA cryptosystem** with
N=33923806373208400845832116486310399
E=1001
- A→01 B→02 C→03 ... Y→25 Z→26
- 'HELLO' becomes
 $X = 0805121215 = 805121215$
- **Ciphertext**
$$Y \equiv X^E \pmod{N}$$
$$\equiv 12279532162011750944831050069401949$$

Final Challenge

Here is an encrypted message for you.

Y=8463926725795300052185519614567284

Good Luck!