More Fun with Prime Numbers

Final Challenge

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Final Challenge

- The RSA cryptosystem with N=33923806373208400845832116486310399 E=1001
- \rightarrow A \rightarrow 01 B \rightarrow 02 C \rightarrow 03 ··· Y \rightarrow 25 Z \rightarrow 26
- `HELLO' becomes
 X = 0805121215 = 805121215
- Cipertext

```
Y \equiv X^{E} \pmod{N}
= 12279532162011750944831050069401949
```

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199

Final Challenge

Here is an encrypted message for you.

Y=**8463926725795300052185519614567284**

Good Luck!