

HGAME 2022 WEEEEK4 容世

Crypto

ECC

线上网站

sagecell.sagemath.org

常规ECC

```
6 E = EllipticCurve(GF(p), [a, b])
7 c1 = E(14455613666211899576018835165132438102011988264607146511938249744871964946084, 25506582570581289714612640493258299813803157561796247330693768146763035791942)
8 c2 = E(37554871162619456709183509122673929636457622251880199235054734523782483869931, 71392055540616736539267960989304287083629288530396474590782366384873814477806)
9
10 m = c1 - k * c2
11 print(m)
12
13 cipher_left = 27453988545002384546706933590432585006240439443312571008791835203660152890619
14 cipher_right = 27453988545002384546706933590432585006240439443312571008791835203660152890619
15
16 cl = cipher_left / m[1]
17 print(cl)
```

Language: Sage

(57824879640955326550732559538097319221644125075532201058220628014917816573008 : 54475275866179647254036565579467398677511796158866832907668620448532510526757 : 1)
127480900256551022095393917

n2s可得

```
import libnum

z1=493033149237009446036260
z2=127480900256551022095393917

print(libnum.n2s(int(z2)))

#hgame{Ecc$ is!sO@HaRd}
```

