After banging my head against the wall for a while, I decided to assume that, after base64 decoding, we have some sort of file. Looking up the header 78 9c seems to be a ZLIB DEFAULT COMPRESSION, so I messed around a bit in cyberchef and, turns out that is right. However, one proof is not enough, so we need to make a program to automate this.

```python
from pwn import *
import base64
import zlib

host = '34.159.151.77'
port = 32107
context.log_level='error'
r = remote(host, port)

def interact_with_server():
    for a in range(1000):
        print(r.recvline())
        data = r.recvline().decode('utf-8').strip()
        print(data)
        print(r.recvline())
        decoded_result =
zlib.decompress(base64.urlsafe_b64decode(data)).decode('utf-8')
        print(f"Sent: {decoded_result}")
        r.sendline(decoded_result)
    r.close()

interact_with_server()
```

At some point we get an EOF error. The last printed string is the flag. Dumb challenge if you ask me.

Made with love by: AndreiCat