

先反编译一下，丢到python反编译在线网站

得到如下代码

```
from hashlib import sha256

__version__ = '1.0.3'
alphabet = b'123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz'
if bytes == str:

    iseq = lambda s: map(ord, s)

    bseq = lambda s: ''.join(map(chr, s))

    buffer = lambda s: s
else:

    iseq = lambda s: s
    bseq = bytes

    buffer = lambda s: s.buffer

def scrub_input(v):
    if isinstance(v, str) and not isinstance(v, bytes):
        v = v.encode('ascii')
    if not isinstance(v, bytes):
        raise TypeError("a bytes-like object is required (also str), not '%s'" % type(v).__name__)

def b58encode_int(i, default_one=(True,)):
    '''Encode an integer using Base58'''
    if not i and default_one:
        return alphabet[0:1]
    string = None
    while i:
        (i, idx) = divmod(i, 58)
        string = alphabet[idx:idx + 1] + string
    return string

def b58encode(v):
    '''Encode a string using Base58'''
    v = scrub_input(v)
    nPad = len(v)
    v = v.lstrip(b'\x00')
    nPad -= len(v)
    (p, acc) = (1, 0)
    for c in iseq(reversed(v)):
        acc += p * c
        p = p << 8

    result = b58encode_int(acc, False, **{'default_one':()})
    return alphabet[0:1] * nPad + result

def b58decode_int(v):
    '''Decode a Base58 encoded string as an integer'''
    v = v.rstrip()
    v = scrub_input(v)
    ...
```

```

decimal = 0
for char in v:
    decimal = decimal * 58 + alphabet.index(char)

return decimal


def b58decode(v):
    '''Decode a Base58 encoded string'''
    v = v.rstrip()
    v = scrub_input(v)
    origlen = len(v)
    v = v.lstrip(alphabet[0:1])
    newlen = len(v)
    acc = b58decode_int(v)
    result = []
    while acc > 0:
        (acc, mod) = divmod(acc, 256)
        result.append(mod)
    return b'\x00' * (origlen - newlen) + bseq(reversed(result))

def b58encode_check(v):
    '''Encode a string using Base58 with a 4 character checksum'''
    digest = sha256(sha256(v).digest()).digest()
    return b58encode(v + digest[:4])

def b58decode_check(v):
    '''Decode and verify the checksum of a Base58 encoded string'''
    result = b58decode(v)
    result = result[:-4]
    check = result[-4:]
    digest = sha256(sha256(result).digest()).digest()
    if check != digest[:4]:
        raise ValueError('Invalid checksum')

if __name__ == '__main__':
    if b58encode(input()) == b'3sLBBYq91BUxPzp7tRuYNKvUNQ2hedyw6ydzNbF9rJbYq9Ue6xZr9aL6rEDwUQZRGnZPGGgwM2PspAeVcCCjyrNQqDV5PhvaZpwj5ZMaXaFuGjiXK1gf72U325dx6n1RFKiBF3C9dYRTj86aqxZ5HN53KLw7oBoXwJjbsNFdcia8A2kQM':
        print('flag is coming...')
    else:
        print('There is no problem that your input is wrong.')

```

应该是一段base58编码和解码的代码

将main()中的base58编码后的字符串取出进行解码

```
3sLBBYq91BUxPzp7tRuYNKvUNQ2hedyw6ydzNbf9rJbYq9Ue6xsr9aL6rEDwUQZRGnZPGGgwM2PspAeVcCCjyrNQqDV5Ph  
vaZpj5ZMaXaFuGjiXK1gf72U325dx6n1RFKiBF3C9dYRTj86aqxZ5HN53KLaW7oBoXwJbsNFdcia8A2kQM
```

加密

解密

So you still decompiled me. I'm just a Miscellaneous. Forget it. Look at your hard work. Give you a hint. Flag is in the PyC file.

CSDN @3tefanie \ zhous

解密后的明文给了一个hint: **flag在pyc文件中**

去年在长安战疫中刚好碰到过一题是pyc文件隐写，可以使用stegosaurus工具获得pyc文件中的隐藏信息

stegosaurus工具项目地址

<https://github.com/AngelKitty/stegosaurus>

后面就很简单了，找一个3.6以上的环境跑一下工具即可

```
[root@VM-16-14-centos stegosaurus-master]# python3 -m stegosaurus flag.pyc -x  
Extracted payload: 217a5bcecea1be5eeea5028b06427b84  
[root@VM-16-14-centos stegosaurus-master]#  
Socket error Event: 32 Error: 10053.  
Connection closing...Socket close.  
  
Connection closed by foreign host.  
  
Disconnected from remote host(tencentyun) at 12:23:05.
```

flag{217a5bcecea1be5eeea5028b06427b84}

【施恩宜由淡转浓，由浓转淡反成仇。刑罚宜由严转宽，先宽后严怨其酷。】