简单的re题

逻辑也比较简单

```
nt
,in
   9  char v9[64]; // [rsp+90h] [rbp+10h] BYREF
  10  char v10[64]; // [rsp+D0h] [rbp+50h] BYREF
  11  char Str2[60]; // [rsp+110h] [rbp+90h] BYREF
  12  int v12; // [rsp+14Ch] [rbp+CCh] BYREF
  13
  14  _main();
  15  strcpy(Str2, "EmBmP5Pmn7QcPU4gLYKv5QcMmB3PWHcP5YkPq3=cT6QckkPckoRG");
  16  puts("Hello, please input your flag and I will tell you whether it is right or not.");
  17  scanf("%38s", Str);
  18  if ( strlen(Str) != 38
  19    || (v3 = strlen(Str), (unsigned int)encode_one(Str, v3, v10, &v12))// base64编码
  20    || (v4 = strlen(v10), (unsigned int)encode_two(v10, v4, v9, &v12))// 普通换位
  21    || (v5 = strlen(v9), (unsigned int)encode_three(v9, v5, Str1, &v12))
  22    || strcmp(Str1, Str2) )
  23  {
  24    printf("Something wrong. Keep going.");
  25    result = 0;
  26  }
  27  else
  28  {
  29    puts("you are right!");
  30    result = 0;
```

首先告诉你长度为38且经过了3次加密

第一个加密是base64

第二个加密就是普通的换位

第三个加密是移位加密

```
import base64
def decode_three(str2):
    for i in range(len(str2)):
        tmp = str2[i]
        if 65<=tmp<=90:
            for j in range(65,91):
                k = (j-65+3)%26 +65
                if k==tmp:
                    str2[i] =j
                    break
        elif 97<=tmp<=122:
            for j in range(97,123):
                k = (j-97+3)%26 +97
                if k ==tmp:
                    str2[i]=j
                    break
        elif 48<=tmp<=57:
            for j in range(48,58):
                k = (j-48+3)%10+48
                if k==tmp:
                    str2[i]=j
                    break
        else:
            str2[i] = tmp
    return str2
def decode_two(str1):
    string  =[]
    string = str1[13:26]+str1[39:52]+str1[0:13]+str1[26:39]
    return string
def decode_one(string):
    return base64.b64decode(bytes(string))

str2 = list(b"EmBmP5Pmn7QcPU4gLYKv5QcMmB3PWHcP5YkPq3=cT6QckkPckoRG")
str1 = decode_three(str2)
string = decode_two(str1)
flag = decode_one(string)
print(flag)
```

```
PS C:\Users\wsxk> & e:/python/virtual_environm
syre/exp.py"
b'GWHT{672cc4778a38e80cb362987341133ea2}'
```