

ISCC_How_decode

```
29 v2[10] = 0x5A630997;
30 v2[11] = 0x80576CDB;
31 v2[12] = 0x11783A4D;
32 v2[13] = 0x73D2C70E;
33 v2[14] = 0xD6EE81AC;
34 v2[15] = 0xD4FA0F09;
35 v2[16] = 0xAC79A9EC;
36 v2[17] = 0x91F4B9B7;
37 key[0] = 'I';
38 key[1] = 'S';
39 key[2] = 'C';
40 key[3] = 'C';
41 scanf("%s", flag);
42
43 //
44 // n = 18
45 //
46 n = strlen(flag);
47 if ( n == n1 )
48 {
49     for ( i = 0; i < n; ++i )
50         v2[i] = flag[i];
51     encode(v2, n, key);
52     for ( i_0 = 0; i_0 < n; ++i_0 )
53     {
54         if ( *(p_v1 + i_0) != v2[i_0] )
55             goto LABEL_2;
56     }
57     printf("Your input is the right answer!");
58     system("pause");
59     return 0;
60 }
61 else
62 {
63     LABEL_2:
64     printf("Wrong answer!");
65     system("pause");
66     return 0;
67 }
```

这个 encode 纠结了我好久

```
8 int p; // [rsp+14h] [rbp-Lh]
9 int sum; // [rsp+18h] [rbp-8h]
10 int z; // [rsp+1Ch] [rbp-4h]
11
12 rounds = 52 / n + 6;
13 //
14 // n = 18
15 //
16 // rounds = 8
17 sum = 0;
18 for ( z = v2[n - 1]; rounds--; z = *v5 )
19 {
20     sum -= 0x61C88647;
21     e = (sum >> 2) & 3;
22     for ( p = 0; p < n - 1; ++p )
23     {
24         y = v2[p + 1];
25         v4 = &v2[p];
26         *v4 += ((y ^ sum) + (z ^ key[e ^ p & 3])) ^ (((4 * y) ^ (z >> 5)) + ((y >> 3) ^ (16 * z)));
27         z = *v4;
28     }
29     v5 = &v2[n - 1];
30     *v5 += ((*v2 ^ sum) + (z ^ key[e ^ p & 3])) ^ (((4 * *v2) ^ (z >> 5)) + ((*v2 >> 3) ^ (16 * z)));
31 }
```

学习之后知道了是 xxtea 加密害嗨嗨

学习 xxtea 之后了解了解密算法 开逆 开逆!!!!

```

v[1] = 0x15F437DE;
v[2] = 0xEB4BF8AF;
v[3] = 0xD9F98EF2;
v[4] = 0x42CCAB39;
v[5] = 0x7A857094;
v[6] = 0x912E821D;
v[7] = 0xCD3148B7;
v[8] = 0x743BC712;
v[9] = 0x487532A5;
v[10] = 0x5A630997;
v[11] = 0x80576CDB;
v[12] = 0x11783A4D;
v[13] = 0x73D2C70E;
v[14] = 0xD6EE81AC;
v[15] = 0xDAFA0F09;
v[16] = 0xAC79A9EC;
v[17] = 0x91F4B9B7;
int n = 17;
strcpy(k, "ISCC");
int z = v[n], y = v[0], delta = 0x9E3779B9, sum, e;
int p, q = 6 + 52 / (n + 1);
sum = q * delta;
while (sum != 0) {
    e = (sum >> 2) & 3;
    for (p = n; p > 0; p--) {
        z = v[p - 1];
        y = v[p] -= ((z >> 5) ^ y << 2) + ((y >> 3) ^ z << 4) ^ (sum ^ y)
            + (k[p & 3 ^ e] ^ z);
    }
    z = v[n];
    y = v[0] -= ((z >> 5) ^ y << 2) + ((y >> 3) ^ z << 4) ^ (sum ^ y)
        + (k[p & 3 ^ e] ^ z);
    sum = sum - delta;
}
for (int i = 0; i <= n; ++i)
    printf("%c", v[i]);
return 0;

```

```

y = v[p] -= ((z >> 5) ^ y << 2) + ((y >> 3) ^ z << 4) ^ (sum ^ y)
    + (k[p & 3 ^ e] ^ z);

```

C:\Windows\system32\cmd.exe

ISCC{a1cGfZD4p5rP} 请按任意键继续.

```

y = v[0] -= ((z >> 5) ^ y << 2) + ((y >> 3) ^ z << 4) ^ (sum ^ y)
    + (k[p & 3 ^ e] ^ z);
sum = sum - delta;
}

```

ISCC{a1cGfZD4p5rP}

这题目的考点主要是那个加密算法 没一下子解出来主要是经验不够 以后还得多多了解加密的算法