Week 2

Re

xD MAZE
upx magic 0
fake shell
creakme2
upx magic1

xD MAZE

迷宫题，把题拖进IDA里面F5看main函数，看下迷宫怎么“走”，根据“failed“和“length err”找到判断条件判断“往哪走”即可解题。

上代码：）(代码不是特别严谨dbq)

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#include<stdio.h>
int main(void)
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    };
    int b[1000] = { 1 };
    int k = 0;
    int c[100]={1};
    char flag[50] = { 8 };
    for (int i = 0; i < 4096; i++)
    {
        if (a[i] == 32)
        {
            b[k] = i;
            k++;
        }
    }
    for (int i = 0; i < 99; i++)
    {
        c[i] = b[i + 1] - b[i];
        switch (c[i])
        {
        case 512:
            flag[i] = '0';
            break;
        case 64:
            flag[i] = '1';
            break;
        case 8:
            flag[i] = '2';
            break;
        case 1:
            flag[i] = '3';
        default:
            continue;
        }
    }
    for (int i = 0; i < 1000; i++)
    {
        printf("%c", flag[i]);
    }
    return 0;
}
```

upx magic 0

（虚假的upx:()

拖进IDA然后F5然后shift+F12快速找到main函数，发现是个不可逆的算法（CRC16算法【一种信息摘要算法】），爆破解决

上代码：）

```
#include<stdio.h>
```

```
int main(void)
{
    int v10[32];
    v10[0] = 36200;
    v10[1] = 40265;
    v10[2] = 10770;
    v10[3] = 43802;
    v10[4] = 52188;
    v10[5] = 47403;
    v10[6] = 11826;
    v10[7] = 40793;
    v10[8] = 56781;
    v10[9] = 40265;
    v10[10] = 43274;
    v10[11] = 3696;
    v10[12] = 62927;
    v10[13] = 2640;
    v10[14] = 23285;
    v10[15] = 65439;
    v10[16] = 40793;
    v10[17] = 48395;
    v10[18] = 22757;
    v10[19] = 14371;
    v10[20] = 48923;
    v10[21] = 30887;
    v10[22] = 43802;
    v10[23] = 18628;
    v10[24] = 43274;
    v10[25] = 11298;
    v10[26] = 40793;
    v10[27] = 23749;
    v10[28] = 24277;
    v10[29] = 30887;
    v10[30] = 9842;
    v10[31] = 22165;
    int flag[32];
    for (int i = 0; i < 37; i++)
    {
        for (int k = 0; k < 0x7F; k++)
        {
            flag[i] = k;
            flag[i] = flag[i] << 8;
            for (int j = 0; j <= 7; ++j)
            {
                if ((flag[i] & 0x8000) != 0)
                {
                    flag[i] = (2 * flag[i]) ^ 0x1021;
                }
                else
                {
                    flag[i] *= 2;
                }
            }
            flag[i] = (unsigned __int16)flag[i];
            if (flag[i] == v10[i])
            {
                putchar(k);
                break;
            }
        }
    }
    return 0;
}
```

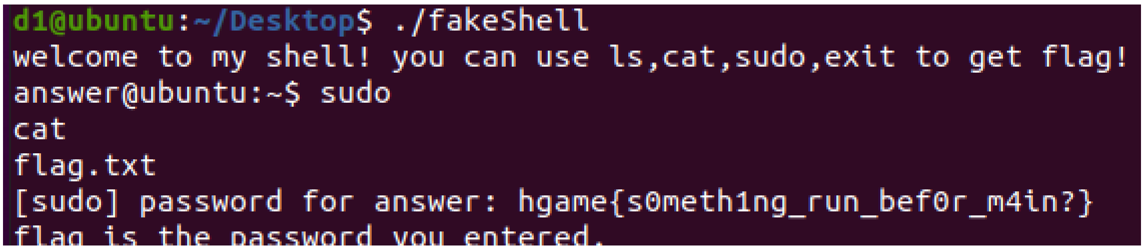
fake shell

拖进IDA然后F5反编译，分析一下发现需要找到password，找到加密函数发现是RC4算法，但是解密发现不对，根据学长的hint还有观察发现密钥在某个隐秘的地方偷偷换了0v0，处理一下数据再拖进CyberChef解密就能得到flag啦！不对，就能得到password啦！然后在Linux上运行一下发现——

处理数据^v^

```
#include<stdio.h>
int main(void)
{
    long long v[4];
    v[0] = 0xE0B25F3D8FFA94B6LL;
    v[1] = 0xE79D6C9866D20FEALL;
    v[2] = 0x6D6FBEC57140081BLL;
    v[3] = 0xF6F3BDA88D097B7CLL;
    char* flag = (char*)v;
    for (int i = 0; i < 32; ++i)
    {
        printf("%x ", flag[i]&0xFF);
    }
}
```

打开文件^v^"



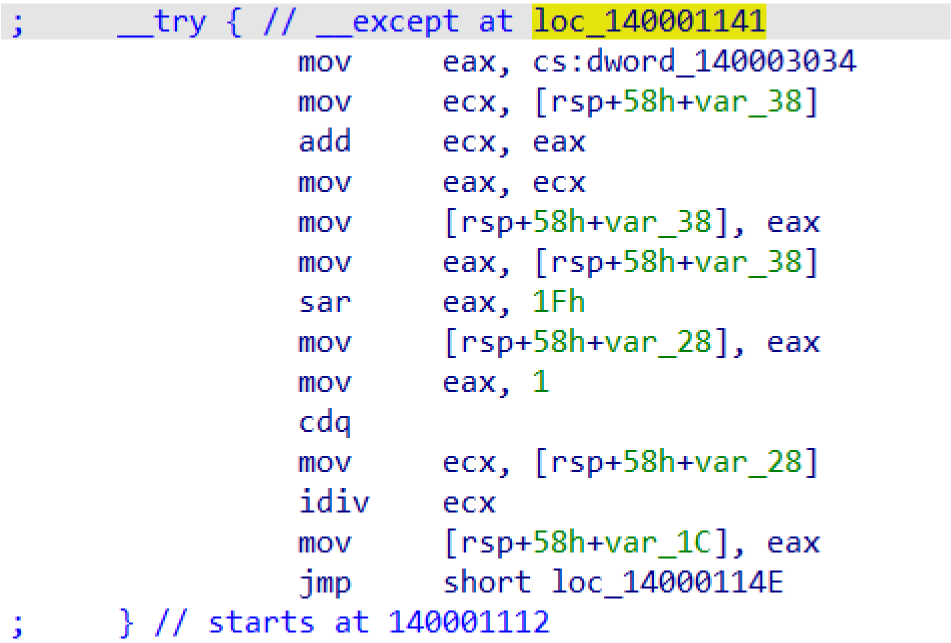
```
d1@ubuntu:~/Desktop$ ./fakeShell
welcome to my shell! you can use ls,cat,sudo,exit to get flag!
answer@ubuntu:~$ sudo
cat
flag.txt
[sudo] password for answer: hgame{s0meth1ng_run_bef0r_m4in?}
flag is the password you entered.
```

hhh

creakme2

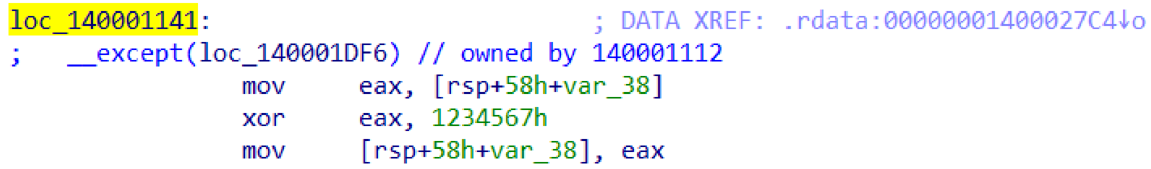
根据学长的hint了解Windows SEH异常处理机制，IDA会将这一部分的代码优化导致F5之后main函数不会包括这一段的反编译代码，所以在汇编中找到try块的位置,except的位置以及except()里的位置，当时学习的时候参考了一下一个用简单的_try语法写的小程序拖进IDA里面大概是什么样的，【这里要注意一下拖进去的小程序在vs2022中编译选项为x64release】从而能更清晰地分析每个块中的汇编对应的内容。

先分析第一个try块，反编译一下发现是对主函数中加密函数的一个变量（这里暂且记作v4）进行处理



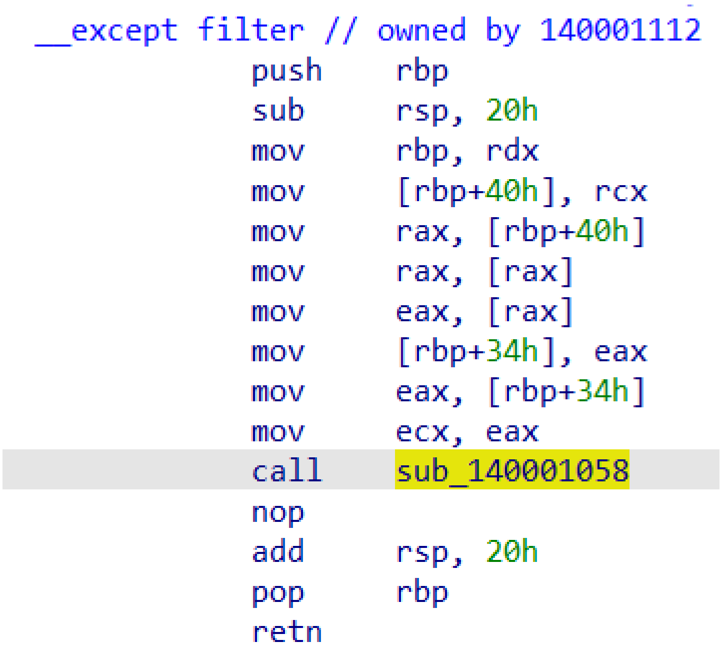
```
;       __try { // __except at loc_140001141
                mov     eax, cs:dword_140003034
                mov     ecx, [rsp+58h+var_38]
                add     ecx, eax
                mov     eax, ecx
                mov     [rsp+58h+var_38], eax
                mov     eax, [rsp+58h+var_38]
                sar     eax, 1Fh
                mov     [rsp+58h+var_28], eax
                mov     eax, 1
                cdq
                mov     ecx, [rsp+58h+var_28]
                idiv    ecx
                mov     [rsp+58h+var_1C], eax
                jmp     short loc_14000114E
;       } // starts at 140001112
```

根据注释找到对应的except块



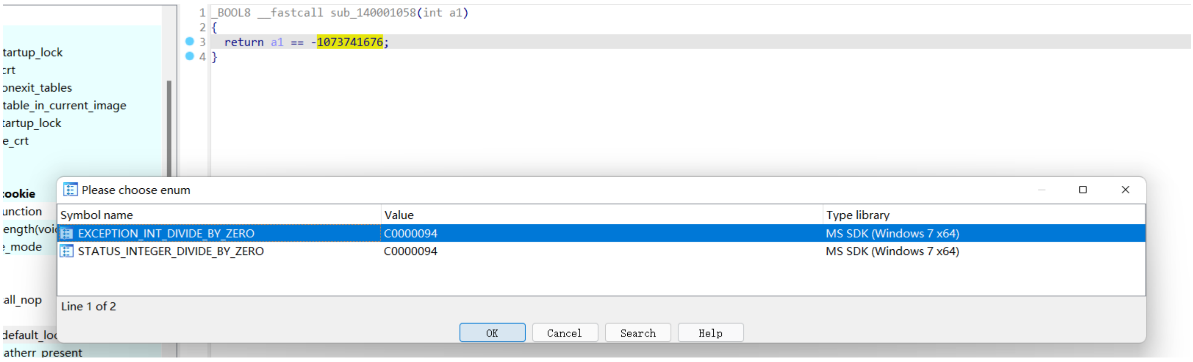
```
loc_140001141:                          ; DATA XREF: .rdata:00000001400027C4↓o
;   __except(loc_140001DF6) // owned by 140001112
                mov     eax, [rsp+58h+var_38]
                xor     eax, 1234567h
                mov     [rsp+58h+var_38], eax
```

在括号中找到过滤块



```
__except filter // owned by 140001112
                push    rbp
                sub     rsp, 20h
                mov     rbp, rdx
                mov     [rbp+40h], rcx
                mov     rax, [rbp+40h]
                mov     rax, [rax]
                mov     eax, [rax]
                mov     [rbp+34h], eax
                mov     eax, [rbp+34h]
                mov     ecx, eax
                call    sub_140001058
                nop
                add     rsp, 20h
                pop     rbp
                retn
```

进call反编译



```
_BOOL8 __fastcall sub_140001058(int a1)
{
  return a1 == -1073741676;
}
```

Please choose enum

Symbol name	Value	Type library
EXCEPTION_INT_DIVIDE_BY_ZERO	C0000094	MS SDK (Windows 7 x64)
STATUS_INTEGER_DIVIDE_BY_ZERO	C0000094	MS SDK (Windows 7 x64)

Line 1 of 2

m键让IDA标记为有意义的枚举常量，发现该异常是除零异常，再返回try块中的汇编代码分析过程，过程大概就是1/(v4>>31)，当三十二位的int右移三十一位后剩下最左边的一位，它为零时就会触发除零异常，从而进行except块中的异常处理，即异或0x1234567

还有一个整块用相同的办法分析出来是栈溢出异常处理，但是动态调试一下发现程序没有触发该异常，所以可以不用管它），将过程结合XTEA加密算法解密，上代码>"<

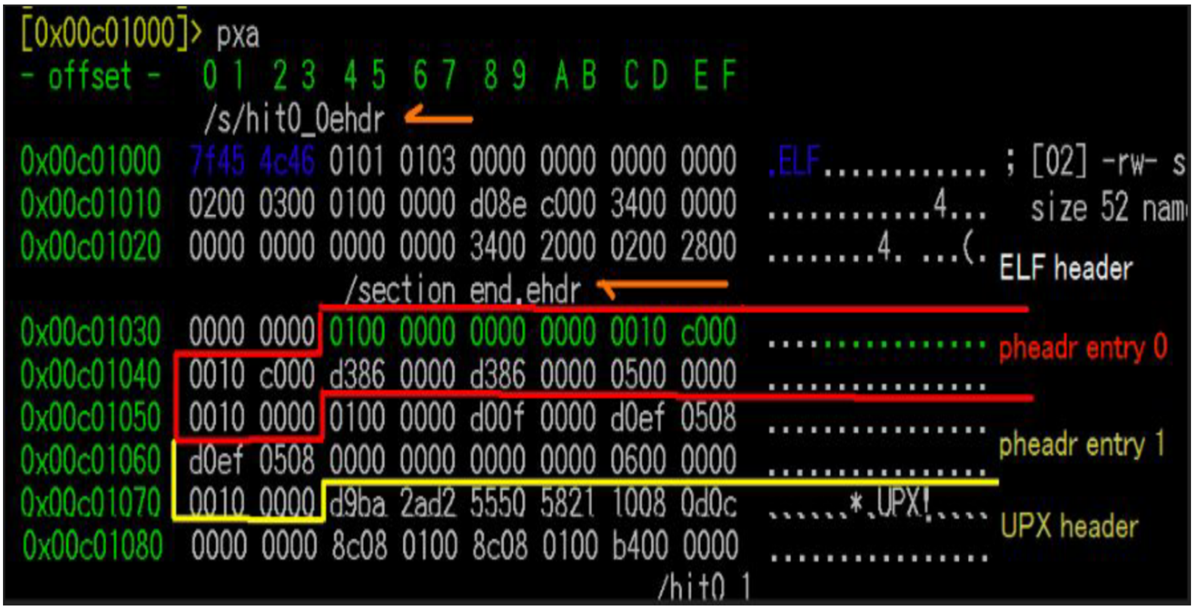
```
#include<stdio.h>
#include<iostream>
void decipher(unsigned int num_rounds, uint32_t v[2], uint32_t const key[4]) {
    unsigned int i;
    uint32_t v0 = v[0], v1 = v[1], delta = 0x9E3779B1;
    uint32_t sum = 0xc78e4d05;//注意一下这个地方的sum值，可以加密一次相同过程获得
    for (i = 0; i < num_rounds; i++) {
        v1 -= (((v0 << 4) ^ (v0 >> 5)) + v0) ^ (sum + key[(sum >> 11) & 3]);
        if ((sum >> 31) == 0)
        {
            sum ^= 0x1234567;
        }
        sum -= delta;
        v0 -= (((v1 << 4) ^ (v1 >> 5)) + v1) ^ (sum + key[sum & 3]);
    }
    v[0] = v0; v[1] = v1;
}
int main(void)
{
    unsigned int v5; // [rsp+24h] [rbp-34h]
    unsigned int v6; // [rsp+28h] [rbp-30h]
    int v11[10];
    int Buf2[8];
    v11[9] = 0;
    v11[0] = 1;
    v11[1] = 2;
    v11[2] = 3;
    v11[3] = 4;
    v11[4] = 5;
    v11[5] = 6;
    v11[6] = 7;
    v11[7] = 8;
    v11[8] = 9;
    Buf2[0] = 0x457E62CF;
    Buf2[1] = 0x9537896C;
    Buf2[2] = 0x1F7E7F72;
    Buf2[3] = 0xF7A073D8;
    Buf2[4] = 0x8E996868;
    Buf2[5] = 0x40AFAF99;
    Buf2[6] = 0xF990E34;
    Buf2[7] = 0x196F4086;
    decipher(32, (uint32_t*)Buf2, (uint32_t*)v11);
    decipher(32, (uint32_t*)(Buf2+2), (uint32_t*)v11);
    decipher(32, (uint32_t*)(Buf2+4), (uint32_t*)v11);
    decipher(32, (uint32_t*)(Buf2+6), (uint32_t*)v11);
    char* flag = (char*)Buf2;
    for (int i = 0; i < 32; i++)
    {
        printf("%c", flag[i]);
    }
}
```

upx magic1

真正的upx！但是发现是个变形的壳OvO（可以根据upx -d报错来判断？）

那就把它改回来：）参考了一下0w1学姐的博客

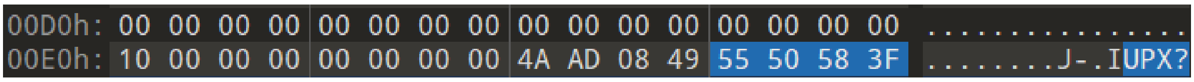
upx文件头结构



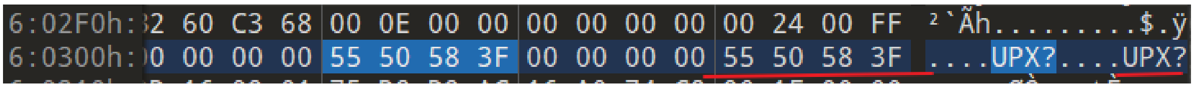
```
[0x00c01000]> pxa
- offset -   0 1  2 3  4 5  6 7  8 9  A B  C D  E F
               /s/hit0_0ehdr
0x00c01000  7f45 4c46 0101 0103 0000 0000 0000 0000  .ELF............  ; [02] -rw- s
0x00c01010  0200 0300 0100 0000 d08e c000 3400 0000  ............4...   size 52 nam
0x00c01020  0000 0000 0000 0000 3400 2000 0200 2800  ........4. ...(.
                      /section end.ehdr
0x00c01030  0000 0000 0100 0000 0000 0000 0010 c000  ................
0x00c01040  0010 c000 d386 0000 d386 0000 0500 0000  ................
0x00c01050  0010 0000 0100 0000 d00f 0000 d0ef 0508  ................
0x00c01060  d0ef 0508 0000 0000 0000 0000 0600 0000  ................
0x00c01070  0010 0000 d9ba 2ad2 5550 5821 1008 0d0c  ......*.UPX!....
0x00c01080  0000 0000 8c08 0100 8c08 0100 b400 0000  ................
                                          /hit0_1
```

复原：）

拖进010 Editor里面把下图选中区域都改成upx就可以upx -d了！



```
00D0h: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  ................
00E0h: 10 00 00 00 00 00 00 00 4A AD 08 49 55 50 58 3F  ........J-.IUPX?
```



```
6:02F0h:32 60 C3 68 00 0E 00 00 00 00 00 00 00 24 00 FF  ²`Ãh........$.ÿ
6:0300h:00 00 00 00 55 50 58 3F 00 00 00 00 55 50 58 3F  ....UPX?....UPX?
```

跟虚假的upx基本相同的解密过程)

```
v14={}
v14[0]=36200
v14[1]=40265
v14[2]=10770
v14[3]=43802
v14[4]=52188
v14[5]=47403
v14[6]=11826
v14[7]=40793
v14[8]=56781
v14[9]=40265
v14[10]=43274
v14[11]=3696
v14[12]=62927
v14[13]=24277
v14[14]=15363
v14[15]=31879
v14[16]=9842
v14[17]=43802
```

```
v14[18]=2640
v14[19]=23285
v14[20]=65439
v14[21]=40793
v14[22]=48395
v14[23]=22757
v14[24]=14371
v14[25]=48923
v14[26]=30887
v14[27]=43802
v14[28]=18628
v14[29]=43274
v14[30]=11298
v14[31]=40793
v14[32]=23749
v14[33]=24277
v14[34]=30887
v14[35]=9842
v14[36]=22165
flag={}
for i in range(37):
  for k in range(127):
    flag[i]=k
    flag[i] = (flag[i] << 8)&0xffff
    for j in range(8):
      if((flag[i]&0x8000)!=0):
        flag[i]=(2*flag[i])^0x1021
      else:
        flag[i]*=2
    flag[i]=(flag[i]&0xffff)
    if(flag[i]==v14[i]):
      print(chr(k),end="")
```