

# easy\_Maze 攻防世界

原创

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分类专栏: [逆向与保护](#)

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订阅专栏

工具

IDA

思路展开

maze类: 1.内存中画出一张地图(地图变换) 2.明确起点和终点 3.(四个字符对应上下左右) flag就是走出的路径

题目提示是maze类的, 找上面三个关键点

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    __int64 v3; // rax
    int v5[7]; // [rsp+0h] [rbp-270h]
    int v6; // [rsp+C0h] [rbp-1B0h]
    int v7[7]; // [rsp+D0h] [rbp-1A0h]
    int v8; // [rsp+190h] [rbp-E0h]
    int v9[7]; // [rsp+1A0h] [rbp-D0h]
    int v10; // [rsp+1BCh] [rbp-B4h]
    int v11; // [rsp+1C0h] [rbp-B0h]
    int v12; // [rsp+1C4h] [rbp-ACh]
    int v13; // [rsp+1C8h] [rbp-A8h]
    int v14; // [rsp+1CCh] [rbp-A4h]
    int v15; // [rsp+1D0h] [rbp-A0h]
    int v16; // [rsp+1D4h] [rbp-9Ch]
    int v17; // [rsp+1D8h] [rbp-98h]
    int v18; // [rsp+1DCh] [rbp-94h]
    int v19; // [rsp+1E0h] [rbp-90h]
    int v20; // [rsp+1E4h] [rbp-8Ch]
    int v21; // [rsp+1E8h] [rbp-88h]
    int v22; // [rsp+1ECh] [rbp-84h]
    int v23; // [rsp+1F0h] [rbp-80h]
    int v24; // [rsp+1F4h] [rbp-7Ch]
    int v25; // [rsp+1F8h] [rbp-78h]
```

```
int v26; // [rsp+1FCh] [rbp-74h]
int v27; // [rsp+200h] [rbp-70h]
int v28; // [rsp+204h] [rbp-6Ch]
int v29; // [rsp+208h] [rbp-68h]
int v30; // [rsp+20Ch] [rbp-64h]
int v31; // [rsp+210h] [rbp-60h]
int v32; // [rsp+214h] [rbp-5Ch]
int v33; // [rsp+218h] [rbp-58h]
int v34; // [rsp+21Ch] [rbp-54h]
int v35; // [rsp+220h] [rbp-50h]
int v36; // [rsp+224h] [rbp-4Ch]
int v37; // [rsp+228h] [rbp-48h]
int v38; // [rsp+22Ch] [rbp-44h]
int v39; // [rsp+230h] [rbp-40h]
int v40; // [rsp+234h] [rbp-3Ch]
int v41; // [rsp+238h] [rbp-38h]
int v42; // [rsp+23Ch] [rbp-34h]
int v43; // [rsp+240h] [rbp-30h]
int v44; // [rsp+244h] [rbp-2Ch]
int v45; // [rsp+248h] [rbp-28h]
int v46; // [rsp+24Ch] [rbp-24h]
int v47; // [rsp+250h] [rbp-20h]
int v48; // [rsp+254h] [rbp-1Ch]
int v49; // [rsp+258h] [rbp-18h]
int v50; // [rsp+25Ch] [rbp-14h]
int v51; // [rsp+260h] [rbp-10h]
```

```
v9[0] = 1;
v9[1] = 1;
v9[2] = -1;
v9[3] = 1;
v9[4] = -1;
v9[5] = 1;
v9[6] = -1;
v10 = 0;
v11 = 0;
v12 = 0;
v13 = 0;
v14 = 1;
v15 = -1;
v16 = 0;
v17 = 0;
v18 = 1;
v19 = 0;
v20 = 0;
v21 = 1;
v22 = 0;
v23 = -1;
v24 = -1;
v25 = 0;
v26 = 1;
v27 = 0;
v28 = 1;
v29 = -1;
v30 = 0;
v31 = -1;
v32 = 0;
v33 = 0;
v34 = 0;
```

```

v35 = 0;
v36 = 0;
v37 = 1;
v38 = -1;
v39 = -1;
v40 = 1;
v41 = -1;
v42 = 0;
v43 = -1;
v44 = 2;
v45 = 1;
v46 = -1;
v47 = 0;
v48 = 0;
v49 = -1;
v50 = 1;
v51 = 0;
memset(v7, 0, 0xC0uLL);
v8 = 0;
memset(v5, 0, 0xC0uLL);
v6 = 0;
Step_0((int (*)[7])v9, 7, (int (*)[7])v7); #地图变换
Step_1((int (*)[7])v7, 7, (int (*)[7])v5); #地图变换
v3 = std::operator<<<std::char_traits<char>>(&_bss_start, "Please help me out!");
std::ostream::operator<<<(v3, &std::endl<char, std::char_traits<char>>);
Step_2((int (*)[7])v5); #输入, 验证
system("pause");
return 0;
}

```

进入Step\_2函数

```

__int64 __fastcall Step_2(int (*a1)[7])
{
    int v1; // eax
    __int64 v2; // rax
    __int64 v3; // rax
    __int64 result; // rax
    __int64 v5; // rax
    char v6[35]; // [rsp+10h] [rbp-30h]
    char v7; // [rsp+33h] [rbp-Dh]
    int v8; // [rsp+34h] [rbp-Ch]
    int v9; // [rsp+38h] [rbp-8h]
    int v10; // [rsp+3Ch] [rbp-4h]

    v10 = 0;
    v9 = 0;
    v8 = 0; #初始位置[0][0]
    while ( v8 <= 29 && (*a1)[7 * v10 + v9] == 1 ) #最多30步, 走1
    {
        std::operator>>><char, std::char_traits<char>>(&std::cin, &v7);
        v1 = v8++;
        v6[v1] = v7;
        if ( v7 == 'd' ) #向右
        {
            ++v9;
        }
        else if ( v7 > 'd' )
        {
            if ( v7 == 's' ) #向下

```

```

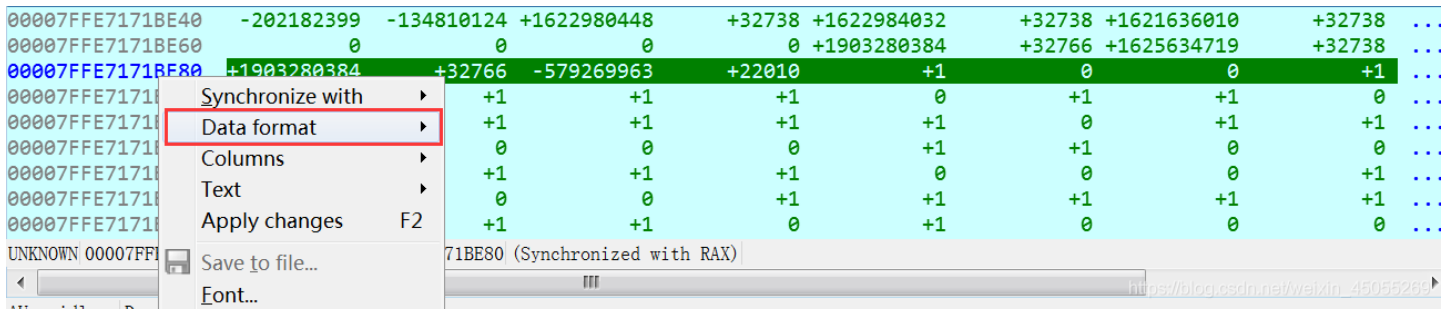
    if ( v7 == 's' ) #向右
    {
        ++v10;
    }
    else
    {
        if ( v7 != 'w' ) #向上
            goto LABEL_14;
        --v10;
    }
}
else if ( v7 == 'a' ) #向左
{
    --v9;
}
else
{
LABEL_14:
    v2 = std::operator<<<std::char_traits<char>>(&_bss_start, "include illegal words.");
    std::ostream::operator<<(v2, &std::endl<char,std::char_traits<char>>);
}
}
if ( v10 != 6 || v9 != 6 ) #结束位置[6][6]
{
    v5 = std::operator<<<std::char_traits<char>>(&_bss_start, "Oh no!,Please try again~~");
    std::ostream::operator<<(v5, &std::endl<char,std::char_traits<char>>);
    result = 0LL;
}
else
{
    v3 = std::operator<<<std::char_traits<char>>(&_bss_start, "Congratulations!");
    std::ostream::operator<<(v3, &std::endl<char,std::char_traits<char>>);
    output(v6, v8);
    result = 1LL;
}
return result;
}

```

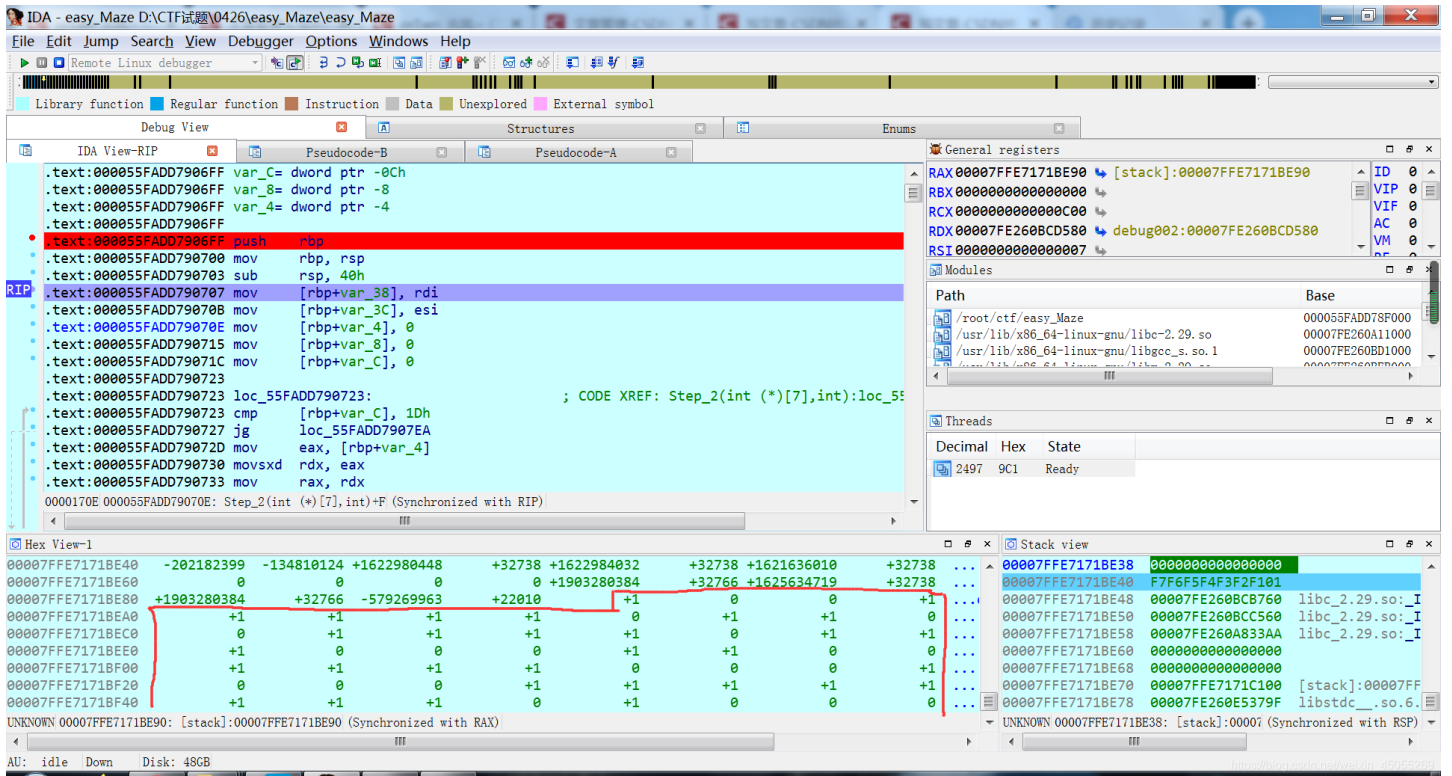
综上：

- 1.地图两次变换（可通过动态调试找到）
- 2.起点[0][0]到[6][6]
- 3.wasd 对应上左下右

动态调试地图（这里小坑，需要设置显示的格式（下图））（设置成4byte\_Integer和Signed）



动调dump出地图



地图整出来，走法

	A	B	C	D	E	F	G
1	1	0	0	1	1	1	1
2	1	0	1	1	0	0	1
3	1	1	1	0	1	1	1
4	0	0	0	1	1	0	0
5	1	1	1	1	0	0	0
6	1	0	0	0	1	1	1
7	1	1	1	1	1	0	1
8							

ssddwdwdddssaasasaaassdddwddds

UNCTF{ssddwdwdddssaasasaaassdddwddds}