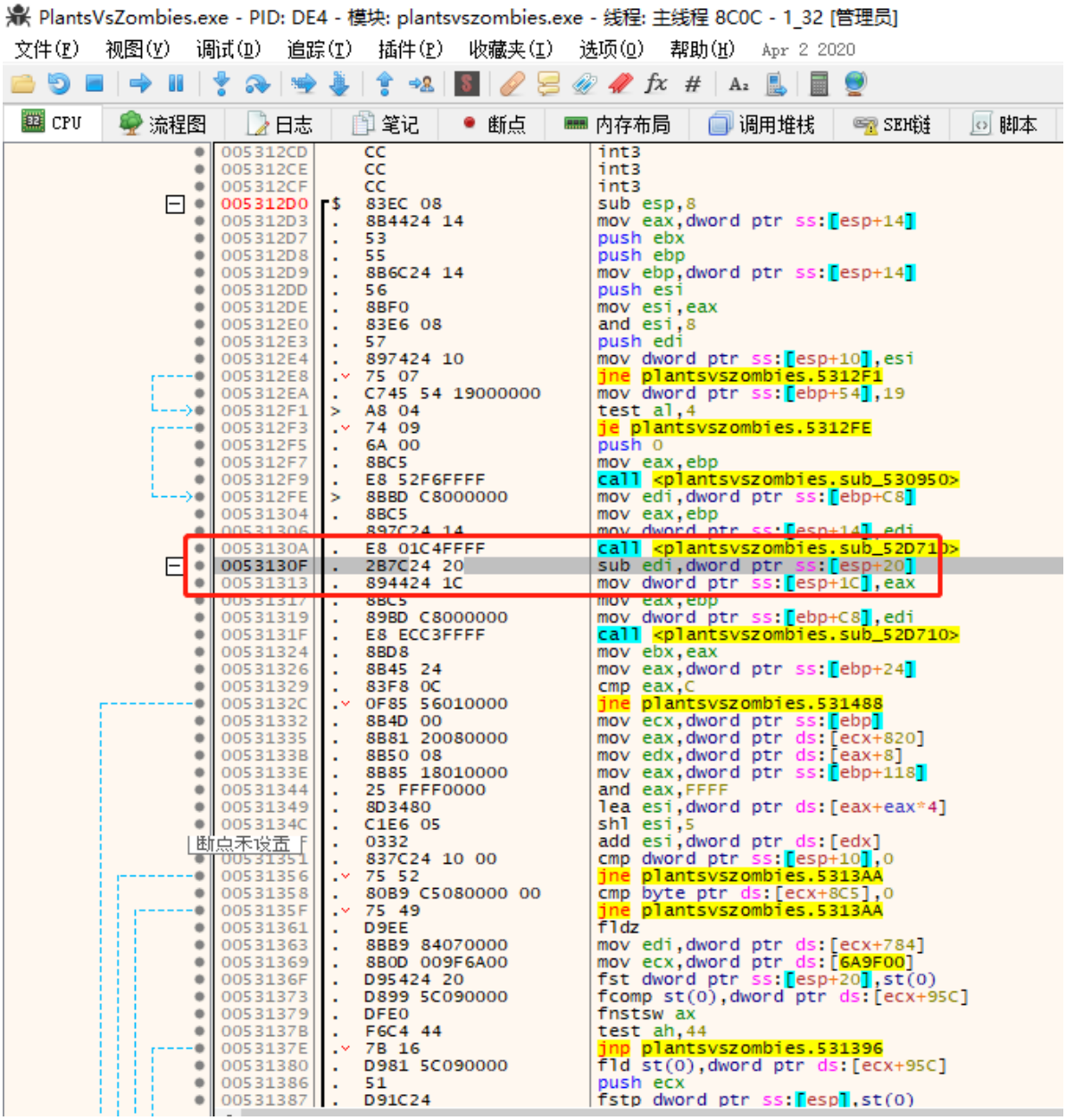
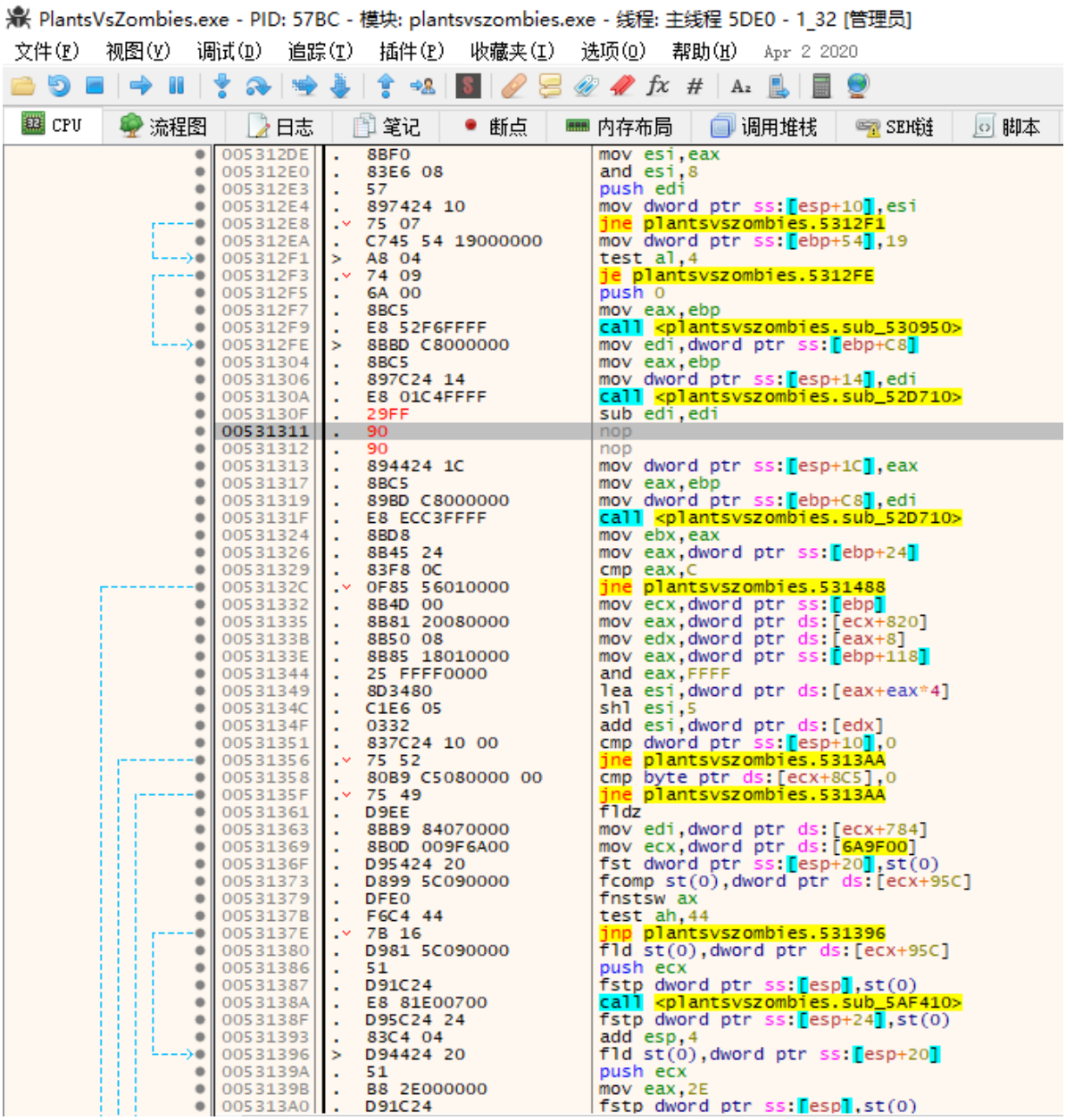
秒杀普通僵尸

```
EAX=1D910C84
EBX=00000000
ECX=000000B4
EDX=000000B4
ESI=00000000
EDI=00000046
EBP=1D910C84
ESP=0019F910
EIP=0053131F

指针基址可能是 = 1D910C84

00531313 - mov [esp+1C],eax
00531317 - mov eax,ebp
00531319 - mov [ebp+000000C8],edi
0053131F - call 0052D710
00531324 - mov ebx,eax
```



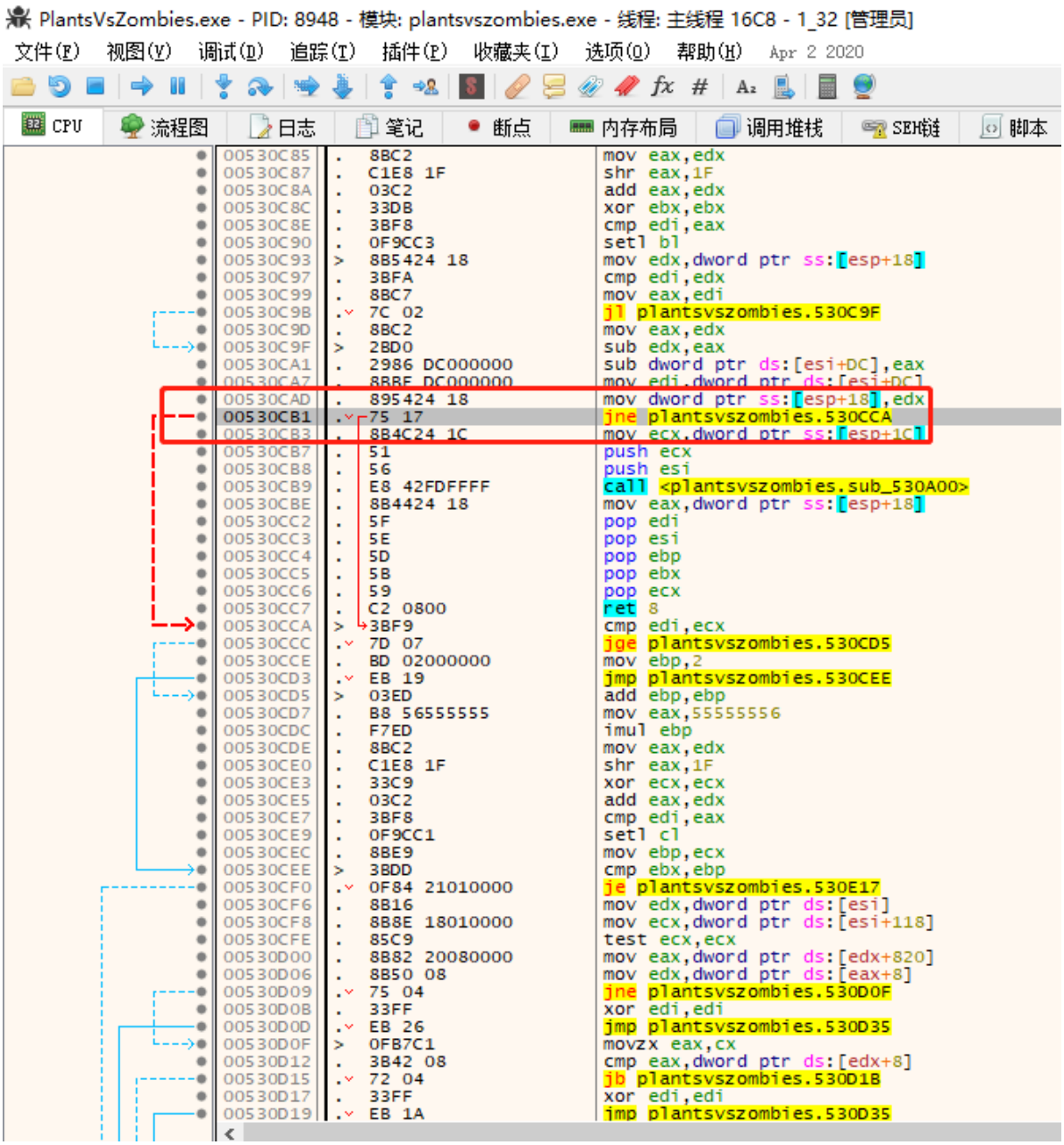


秒杀戴帽子僵尸

```
EAX=00000014
EBX=00000000
ECX=0000006E
EDX=00000001
ESI=00000000
EDI=00000172
EBP=19996960
ESP=0019F920
EIP=00531053

指针基址可能是 = 19996960

00531046 - test bl,04
00531049 - mov [esp+0C],esi
0053104D - mov [ebp+000000D0],ecx
00531053 - je 0053105E
00531055 - push 00
```

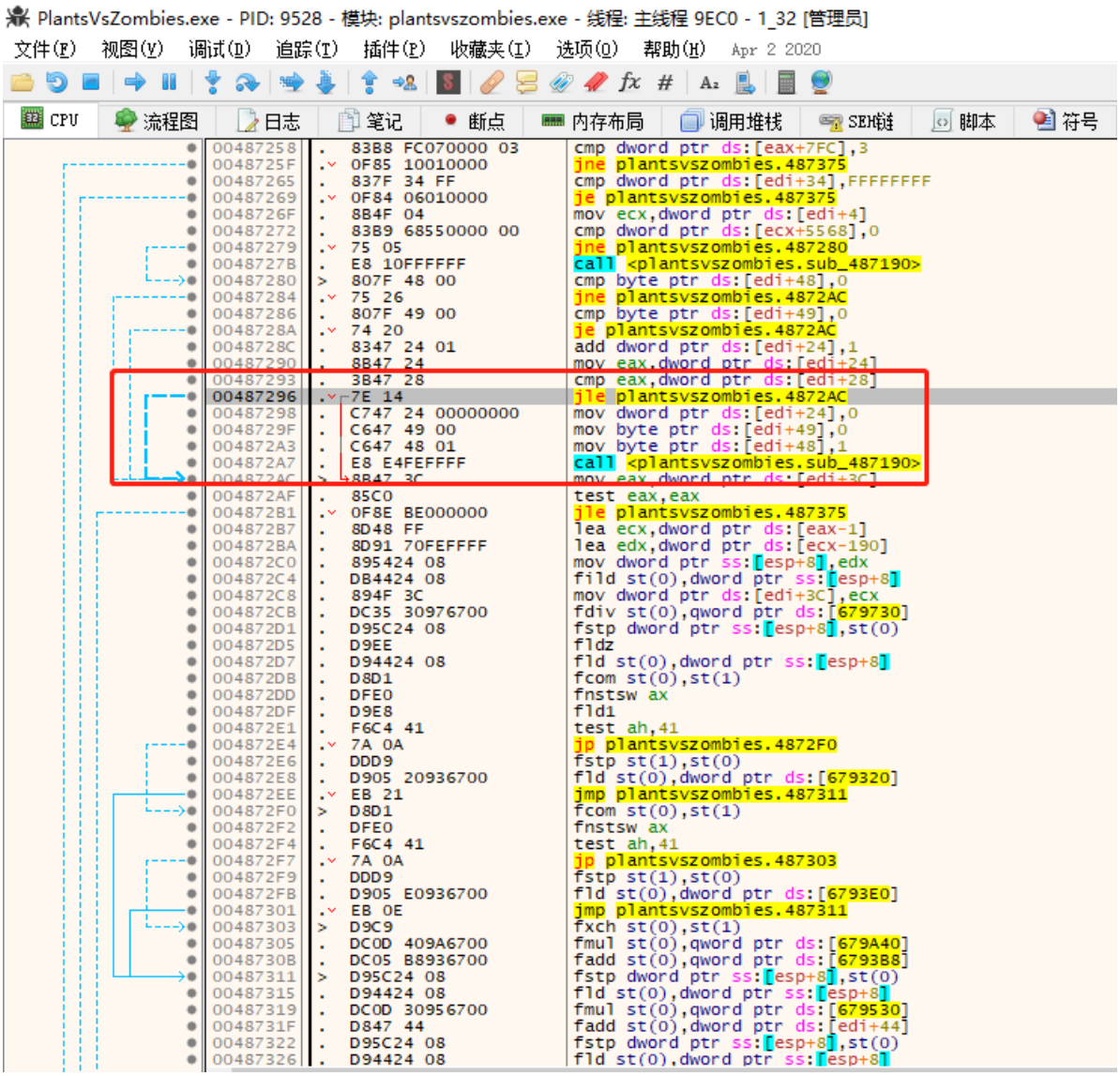
秒杀铁丝网僵尸

```
EAX=00000014
EBX=00000000
ECX=0000016E
EDX=00000000
ESI=167933F8
EDI=000002F8
EBP=0000044C
ESP=0019F918
EIP=00530CA7

指针基址可能是 = 167933F8

00530C9D - mov eax,edx
00530C9F - sub edx,eax
00530CA1 - sub [esi+000000DC],eax
00530CA7 - mov edi,[esi+000000DC]
00530CAD - mov [esp+18],edx
```



植物安放无CD

```
EAX=02879CF0
EBX=1A482230
ECX=1A482230
EDX=0287A848
ESI=00000000
EDI=17050E58
EBP=00000000
ESP=0019FA00
EIP=00487290

指针基址可能是 = 17050E58

00487286 - cmp byte ptr [edi+49],00
0048728A - je 004872AC
0048728C - add dword ptr [edi+24],01
00487290 - mov eax,[edi+24]
00487293 - cmp eax,[edi+28]
```

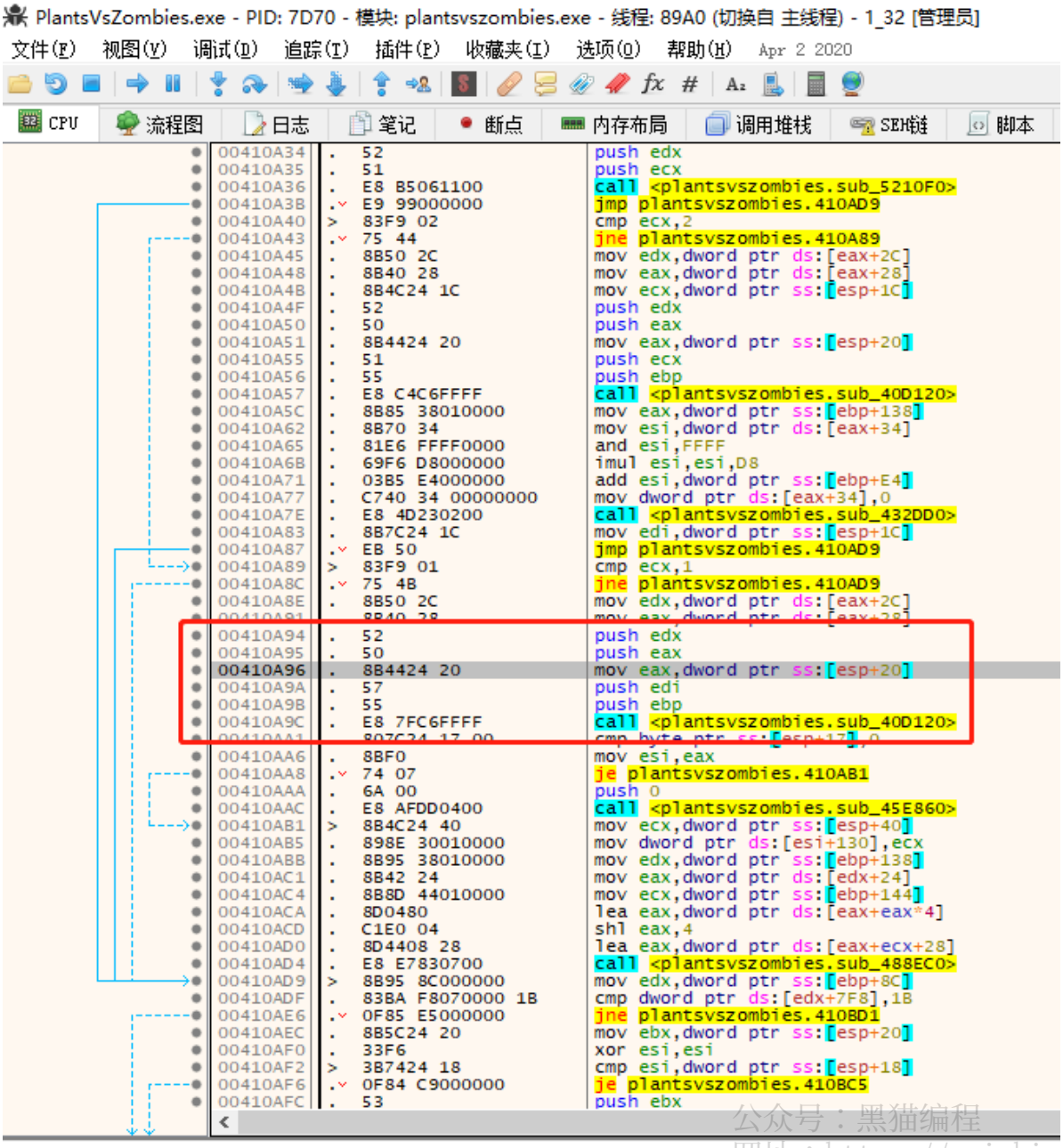


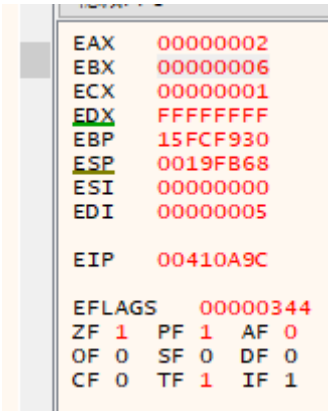
大嘴花吞噬无CD

```
EAX=000009D9
EBX=167E2B80
ECX=00000006
EDX=02889CF0
ESI=0019FA20
EDI=167E2B80
EBP=00000000
ESP=0019F9F8
EIP=00463252

指针基址可能是 = 167E2B80

0046324A - jle 00463252
0046324C - add eax,-01
0046324F - mov [edi+54],eax
00463252 - mov ecx,[edi]
00463254 - call 00453840
```

植物安放call

```
EAX=00000006
EBX=00000002
ECX=00000000
EDX=16030010
ESI=16BBA284
EDI=00000006
EBP=16B5D6E0
ESP=0019FB78
EIP=00410AC4

指针基址可能是 = 16030010

00410AB5 - mov [esi+00000130],ecx
00410ABB - mov edx,[ebp+00000138]
00410AC1 - mov eax,[edx+24]
00410AC4 - mov ecx,[ebp+00000144]
00410ACA - lea eax,[eax+eax*4]
```

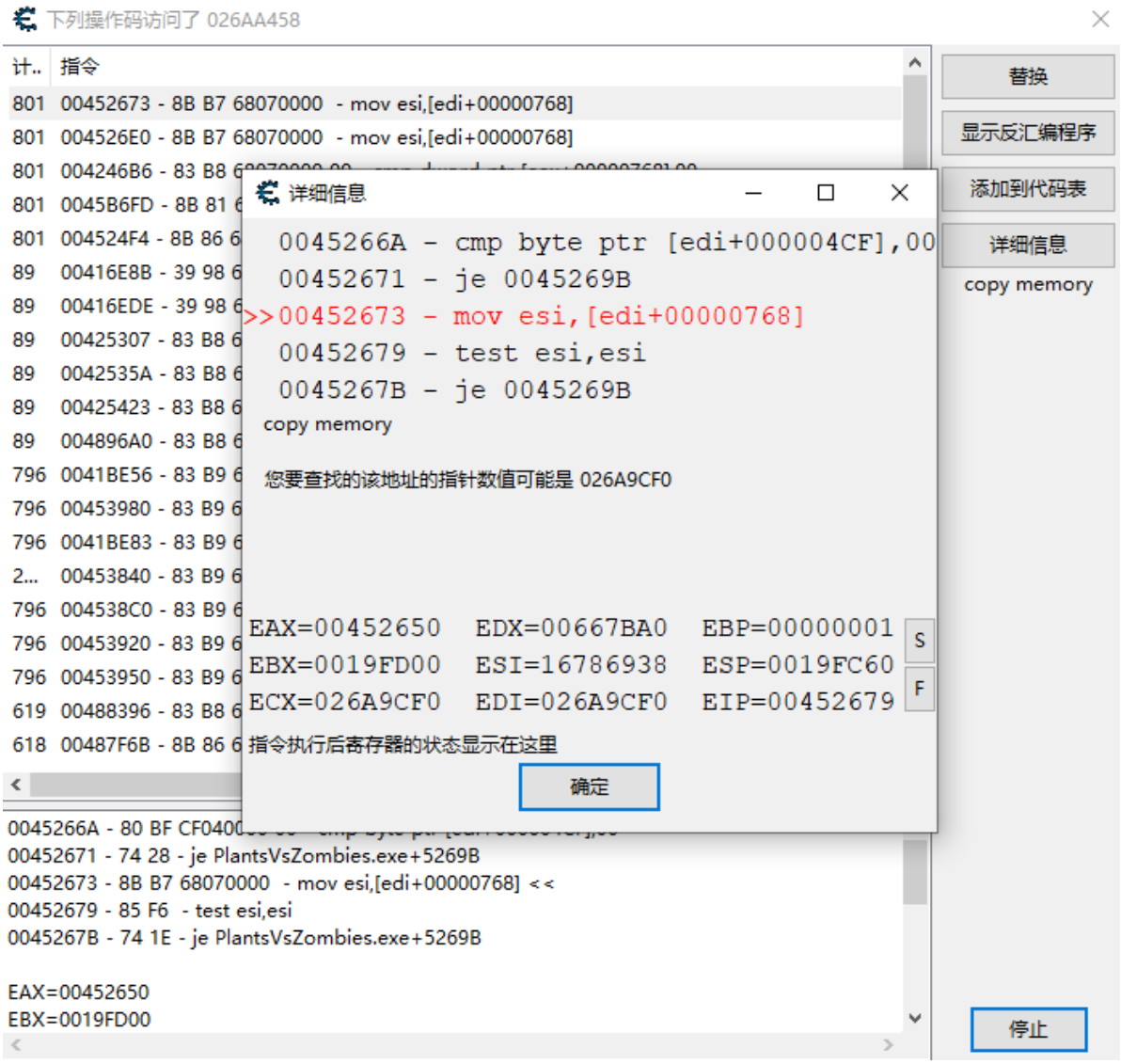





```
00410A94 | 52                       | push edx
                                                |
00410A95 | 50                       | push eax
                                                |
00410A96 | 8B4424 20                | mov eax,dword ptr ss:[esp+20]
                                                 |
00410A9A | 57                       | push edi
                                                |
00410A9B | 55                       | push ebp
                                                |
00410A9C | E8 7FC6FFFF              | call <plantsvszombies.sub_40D120>
```

EBP是变化的，需要寻找基址

```
push -1
push 1
mov eax, 1
push 2
mov ebx, ds:[0x6A9EC0]
mov ebx, ds:[ebx+0x768]
push ebx
mov edx,0x40D120
call edx

__asm {
    pushad
    push -1
    push 2
    mov eax, 0
    push 2
    mov ebx, ds:[0x6A9EC0]
    mov ebx, ds:[ebx+0x768]
    push ebx
    mov edx,0x40D120
    call edx
    popad
    ret
}
```



- 注入时一定注意切换为Release模式
  - Debug通常称为调试版本，通过一系列编译选项的配合，编译结果通常包含调试信息，而且不做任何优化，以为开发人员提供强大的应用程序调试能力。但是注入时也包含很多额外信息，进而导致注入失败。
  - Release通常称为发布版本，是为用户使用的，一般客户不允许在发布版本上进行调试，所以不保存调试信息，同时它往往进行了各种优化，以期达到代码最小和速度最优，为用户的使用提供便利。
- 关闭SDL检查
  - SDL检查也叫做 `安全开发生命周期检查`，是微软在VS2012推出的，为了能更好的监管开发者的代码安全，如果勾选上这一项，那么他将严格按照SDL的规则编译代码，会有一些以前常用的函数无法通过编译，比如在VS2010中的scanf是warning那么在VS2012中就是error。

/sdl 启用警告	等效的命令行开关	描述
C4146	/we4146	一元负运算符应用于无符号类型，从而导致无符号结果。
C4308	/we4308	一个负整型常数转换为无符号类型，从而导致一个可能无意义结果。
C4532	/we4532	__finally /finally中的关键词，使用continue， break 或 goto在异常终止块未定义行为。
C4533	/we4533	初始化变量的代码不会执行。
C4700	/we4700	使用未初始化的局部变量。
C4703	/we4703	对一个潜在的未初始化的局部指针变量的使用。
C4789	/we4789	当使用时，请缓冲区溢出特定 C 运行时 (CRT) 函数。
C4995	/we4995	使用函数的标deprecated。
C4996	/we4996	使用函数的标记作为deprecated。

源码展示

```
HANDLE g_process_handle;     // 游戏进程句柄
HANDLE g_monitor_thread;
BOOL is_collect_sun;

// 向指定内存写入数据
void WriteMemory(HANDLE hProcess, void* value, DWORD valueSize, ...) {
    if (value == NULL || valueSize == 0 || hProcess == NULL) return;

    DWORD tempValue = 0;

    va_list addresses;
    va_start(addresses, valueSize);
    DWORD offset = 0;
    DWORD lastAddress = 0;
    while ((offset = va_arg(addresses, DWORD)) != -1) {
        lastAddress = tempValue + offset;
        ::ReadProcessMemory(hProcess, (LPCVOID)lastAddress, &tempValue,
sizeof(DWORD), NULL);
    }
    va_end(addresses);

    ::WriteProcessMemory(hProcess, (LPVOID)lastAddress, value, valueSize,
NULL);
}

void WriteMemory(HANDLE hProcess, void* value, DWORD valueSize, DWORD
address) {
    WriteMemory(hProcess, value, valueSize, address, -1);
}

// 线程函数
DWORD WINAPI monitorThreadProc(LPVOID lpParameter) {
    while (TRUE) {
        HWND game_hwnd = ::FindWindowA(NULL, "植物大战僵尸中文版");
        if (!game_hwnd) {
            ::MessageBoxA(NULL, "植物大战僵尸游戏未打开", "错误", MB_OK);
        }
        else if (!g_process_handle) {
```

```
            DWORD pid;
            ::GetWindowThreadProcessId(game_hwnd, &pid);
            g_process_handle = ::OpenProcess(PROCESS_ALL_ACCESS, NULL, pid);
        }

        WriteMemory(g_process_handle, &is_collect_sun,
sizeof(is_collect_sun), 0x6A9EC0, 0x768, 0xe4, 0x50, -1);

        ::Sleep(1000);
    }

    return 0;
}

// 提升权限函数
BOOL ImproveAccessPrivilege()
{
    HANDLE tokenHandle;
    LUID privilegeValue;

    if (!::OpenProcessToken(GetCurrentProcess(), TOKEN_ADJUST_PRIVILEGES |
TOKEN_QUERY, &tokenHandle)) return FALSE;

    if (!LookupPrivilegeValue(NULL, SE_DEBUG_NAME, &privilegeValue))
    {
        ::CloseHandle(tokenHandle);
        return FALSE;
    }

    TOKEN_PRIVILEGES privileges;
    privileges.PrivilegeCount = 1;
    privileges.Privileges[0].Luid = privilegeValue;
    privileges.Privileges[0].Attributes = SE_PRIVILEGE_ENABLED;

    if (!::AdjustTokenPrivileges(tokenHandle, FALSE, &privileges,
sizeof(privileges), NULL, NULL))
    {
        ::CloseHandle(tokenHandle);
        return FALSE;
    }

    return TRUE;
}
```

```
ImproveAccessPrivilege();
g_monitor_thread = ::CreateThread(NULL, NULL, monitorThreadProc, NULL, NULL,
NULL);

// 阳光初始值
m_edit_sun_value = "8000";
m_edit_money_value = "9999";
m_edit_plantX = "5";
m_edit_plantY = "4";

UpdateData(FALSE);
```

```cpp
// 设置阳光值
void CPlantsVsZombiesWGDlg::OnBnClickedBtnSetSun()
{
    UpdateData(TRUE);

    int sun_value = _ttoi(m_edit_sun_value);
    WriteMemory(g_process_handle, &sun_value, sizeof(sun_value), 0x6A9EC0, 0x768, 0x5560, -1);
}


// 设置金币值
void CPlantsVsZombiesWGDlg::OnBnClickedBtnSetmoney()
{
    UpdateData(TRUE);
    int money_value = _ttoi(m_edit_money_value);
    WriteMemory(g_process_handle, &money_value, sizeof(money_value), 0x6A9EC0, 0x82C, 0x28, -1);
}


// 自动收集阳光
void CPlantsVsZombiesWGDlg::OnBnClickedCheckAutoCollect()
{
    if (m_check_auto_collect.GetCheck()) is_collect_sun = 1;
    // else is_collect_sun = 0;
}


// 秒杀僵尸
void CPlantsVsZombiesWGDlg::OnBnClickedCheckKill()
{
    DWORD address1 = 0x53130F;  // 普通僵尸
    DWORD address2 = 0x531044;  // 戴帽子僵尸
    DWORD address3 = 0x530CB1;  // 铁丝网僵尸

    if (m_check_kill.GetCheck()) {

        BYTE data1[] = { 0x29, 0xff, 0x90, 0x90 };
        WriteMemory(g_process_handle, data1, sizeof(data1), address1);

        BYTE data2[] = { 0x29, 0xc9 };
        WriteMemory(g_process_handle, data2, sizeof(data2), address2);

        BYTE data3[] = { 0x90, 0x90 };
        WriteMemory(g_process_handle, data3, sizeof(data3), address3);
        /*::WriteProcessMemory(g_process_handle, (LPVOID)0x53130F, (LPCVOID)&data1[0], 1, NULL);
        ::WriteProcessMemory(g_process_handle, (LPVOID)0x531310, (LPCVOID)&data1[1], 1, NULL);
        ::WriteProcessMemory(g_process_handle, (LPVOID)0x531311, (LPCVOID)&data1[2], 1, NULL);
        ::WriteProcessMemory(g_process_handle, (LPVOID)0x531312, (LPCVOID)&data1[3], 1, NULL);*/
    }
```

```
    else {
        BYTE data1[] = { 0x2b, 0x7c, 0x24, 0x20 };
        WriteMemory(g_process_handle, data1, sizeof(data1), address1);

        BYTE data2[] = { 0x2b, 0xc8 };
        WriteMemory(g_process_handle, data2, sizeof(data2), address2);

        BYTE data3[] = { 0x75, 0x17 };
        WriteMemory(g_process_handle, data3, sizeof(data3), address3);
    }
}

// 植物不死
void CPlantsVsZombiesWGDlg::OnBnClickedCheckPlantsNodeath()
{
    DWORD address1 = 0x52FCF0;
    DWORD address2 = 0x46D7A6;
    DWORD address3 = 0x45EC63;
    DWORD address4 = 0x46CFEB;
    if (m_check_plabts_no_death.GetCheck()) {
        BYTE data1[] = { 0x90, 0x90, 0x90, 0x90 };
        WriteMemory(g_process_handle, data1, sizeof(data1), address1);

        BYTE data2[] = { 0x90, 0x90, 0x90 };
        WriteMemory(g_process_handle, data2, sizeof(data2), address2);

        BYTE data3[] = { 0x90, 0x90, 0x90, 0x90 };
        WriteMemory(g_process_handle, data3, sizeof(data3), address3);

        BYTE data4[] = { 0x90, 0x90, 0x90 };
        WriteMemory(g_process_handle, data4, sizeof(data4), address4);
    }
    else {
        BYTE data1[] = { 0x83, 0x46, 0x40, 0xFC };
        WriteMemory(g_process_handle, data1, sizeof(data1), address1);

        BYTE data2[] = { 0x29, 0x4E, 0X40 };
        WriteMemory(g_process_handle, data2, sizeof(data2), address2);

        BYTE data3[] = { 0x83, 0x46, 0x40, 0xCE };
        WriteMemory(g_process_handle, data3, sizeof(data3), address3);

        BYTE data4[] = { 0x29, 0x50, 0x40 };
        WriteMemory(g_process_handle, data4, sizeof(data4), address4);
    }
}


// 后台运行
void CPlantsVsZombiesWGDlg::OnBnClickedCheckRunInbg()
{
    DWORD address = 0x54E1C2;
    if (m_check_run_inbg.GetCheck()) {
        BYTE data[] = { 0x90, 0x90, 0x90 };
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
    else {
        BYTE data[] = { 0x0F, 0x95, 0xC0 };
```

```
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
}


void CPlantsVsZombiesWGDlg::OnBnClickedCheckPlantsNocd()
{
    DWORD address = 0x487296;
    if (m_check_plants_nocd.GetCheck()) {
        BYTE data[] = { 0x90, 0x90 };
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
    else {
        BYTE data[] = { 0x7E, 0x24 };
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
}


void CPlantsVsZombiesWGDlg::OnBnClickedCheckBigmouseNocd()
{
    DWORD address = 0x46324c;
    if (m_check_bigmouse_nocd.GetCheck()) {
        BYTE data[] = { 0x29, 0xc0, 0x90 };
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
    else {
        BYTE data[] = { 0x83, 0xc0, 0xff };
        WriteMemory(g_process_handle, data, sizeof(data), address);
    }
}

// ----------------植物全屏种植--------------------
typedef struct PutPlantsNode {
    UINT x, y, id;
}PutPlants, *PPutPlants;

// 无参自定义汇编
__declspec(naked) void asmPutPlants() {
    __asm {
        pushad
        push -1
        push 1
        mov eax,1
        push 2
        mov ebx, ds:[0x6A9EC0]
        mov ebx, ds:[ebx+0x768]
        push ebx
        mov edx, 0x40D120
        call edx
        popad
        ret
    }
}

// 有参自定义汇编
DWORD __stdcall asmPutPlants2(LPVOID lpThreadParam) {

```

```
166     PPutPlants p_param = (PPutPlants)lpThreadParam;
167     UINT x = p_param->x;
168     UINT y = p_param->y;
169     UINT id = p_param->id;
170     __asm {
171         pushad
172         push - 1
173         push id
174         mov eax, x
175         push y
176         mov ebx, dword ptr ds: [0x6A9EC0]
177         mov ebx, dword ptr ds : [ebx + 0x768]
178         push ebx
179         mov edx, 0x40D120
180         call edx
181         popad
182     }
183     return 0;
184 }
185 
186 // 带参数的注入
187 BOOL injectRemoteThread(LPVOID funcAddr, LPVOID paramAddr, DWORD paramSize)
    {
188 
189     // 函数所需空间
190     LPVOID threadFuncAddr = ::VirtualAllocEx(g_process_handle, NULL, 4096,
    MEM_COMMIT | MEM_RESERVE, PAGE_EXECUTE_READWRITE);
191     // 写入函数汇编
192     ::WriteProcessMemory(g_process_handle, threadFuncAddr, funcAddr, 4096,
    NULL);
193 
194     // 参数所需空间
195     LPVOID threadParamAddr = ::VirtualAllocEx(g_process_handle, NULL, 4096,
    MEM_COMMIT | MEM_RESERVE, PAGE_EXECUTE_READWRITE);
196     // 写入参数汇编
197     ::WriteProcessMemory(g_process_handle, threadParamAddr, paramAddr,
    paramSize, NULL);
198 
199     // 执行注入的函数和参数
200     HANDLE remoteThreadRet = ::CreateRemoteThread(g_process_handle, NULL,
    0, (LPTHREAD_START_ROUTINE)threadFuncAddr, threadParamAddr, 0, NULL);
201 
202     BOOL is_sucess = FALSE;
203     if (remoteThreadRet) is_sucess = TRUE;
204 
205     DWORD threadWaitRet = ::WaitForSingleObject(remoteThreadRet, 0);
206 
207     if (WAIT_TIMEOUT == threadWaitRet)
208         ::CloseHandle(remoteThreadRet);
209     else {
210         ::VirtualFreeEx(g_process_handle, threadFuncAddr, 0, MEM_RELEASE);
211         ::VirtualFreeEx(g_process_handle, threadParamAddr, 0, MEM_RELEASE);
212     }
213 
214     return is_sucess;
215 }
216 
217 // 组合框选择植物发生改变
```

```cpp
void CPlantsVsZombiesWGDlg::OnCbnSelchangeCbxPlantsType()
{
    UpdateData(TRUE);
    UINT x = _ttoi(m_edit_plantX) - 1;
    UINT y = _ttoi(m_edit_plantY) - 1;
    UINT id = m_cbx_choose_plant.GetCurSel() + 1;
    PutPlants param = { x, y, id };

    if (!injectRemoteThread(asmPutPlants2, &param, sizeof(param)))
        ::MessageBoxA(NULL, "安放植物失败", "错误", MB_OK);
}

// 范围随机种植
void CPlantsVsZombiesWGDlg::OnBnClickedBtnRandPutPlants()
{
    // 无参注入测试
    /*LPVOID threadAddr = ::VirtualAllocEx(g_process_handle, NULL, 4096, MEM_COMMIT | MEM_RESERVE, PAGE_EXECUTE_READWRITE);
    ::WriteProcessMemory(g_process_handle, threadAddr, asmPutPlants, 4096, NULL);
    HANDLE remoteThread = ::CreateRemoteThread(g_process_handle, NULL, 0, (LPTHREAD_START_ROUTINE)threadAddr, NULL, 0, NULL);*/
    UpdateData(TRUE);
    UINT row = _ttoi(m_edit_plantX);
    UINT col = _ttoi(m_edit_plantY);

    for (int i = 0; i < row; i++) {
        for (int j = 0; j < col; j++) {
            PutPlants param = { i, j, rand() % 8 + 1 };
            if (!injectRemoteThread(asmPutPlants2, &param, sizeof(param))) {
                ::MessageBoxA(NULL, "安放植物失败", "错误", MB_OK);
                return;
            }
            ::Sleep(100);
        }
    }
}


void CPlantsVsZombiesWGDlg::OnClose()
{
    ::TerminateThread(g_monitor_thread, 0);
    ::CloseHandle(g_monitor_thread);
    ::CloseHandle(g_process_handle);

    CDialogEx::OnClose();
}
```