

# buuoj re逆向前32题writeup(截图+c++源码+过程)

原创

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5 篇文章 0 订阅

订阅专栏

萌新第一次写这玩意, 如有错误, 请多指教。

RE

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## 1 easyre

# 1、easyre 明码

IDA - easyre.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa12080.630\easyre.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexolored External symbol

Functions window

Function name

- \_\_mingw\_invalidParameterHandler
- pre\_c\_init
- pre\_cpp\_init
- \_\_tmainCRTStartup
- WinMainCRTStartup
- mainCRTStartup
- main
- d\_make\_comp
- d\_make\_name
- d\_cv\_qualifiers
- d\_ref\_qualifier
- d\_clone\_suffix
- d\_substitution
- d\_append\_char
- d\_number\_isra\_0
- d\_number\_component
- d\_compact\_number
- d\_template\_param
- d\_discriminator
- d\_source\_name
- d\_call\_offset
- d\_lookup\_template\_argument\_isra\_6
- d\_find\_pack
- d\_growable\_string\_callback\_adapter
- d\_expr\_primary
- d\_template\_args
- d\_name
- d\_type
- d\_parmlist
- d\_base\_function\_ptr

```
; int __cdecl main(int argc, const char **argv, const char **envp)
public main
main proc near

b= dword ptr -8
a= dword ptr -4

; __unwind { // __gxx_personality_seh0
push rbp
mov rbp, rsp
sub rsp, 30h
call __main
lea rdx, [rbp+b]
lea rax, [rbp+a]
mov r8, rdx
mov rdx, rax
lea rcx, Format ; "%d%d"
; try {
call scanf
mov edx, [rbp+a]
mov eax, [rbp+b]
cmp edx, eax
jnz short loc_40152F

lea rcx, aFlagThisIsAEas ; "flag{this_Is_a_EaSyRe}"
call printf
jmp short loc_40153B

loc_40152F:
lea rcx, aSorryYouCanTGe ; "sorry,you can't get flag"
call printf
; } // starts at 401512
```

Line 7 of 467

Graph overview

100.00% (-136, 143) (1769, 515) 00000AF0 00000000004014F0: main (Synchronized with Hex View-1)

Output window

Propagating type information...  
Function argument information has been propagated.  
The initial autoanalysis has been finished.

Python

AU: idle Down Disk: 62GB

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## 2 Reverse1

## 2、Reverse1明码

```
5 size_t v2; // rax
6 size_t v3; // rax
7 char v5; // [rsp+0h] [rbp-20h]
8 int j; // [rsp+24h] [rbp+4h]
9 char Str1; // [rsp+48h] [rbp+28h]
10 unsigned __int64 v8; // [rsp+128h] [rbp+108h]
11
12 v0 = &v5;
13 for ( i = 82i64; i; --i )
14 {
15     *v0 = -858993460;
16     v0 += 4;
17 }
18 for ( j = 0; ; ++j )
19 {
20     v8 = j;
21     v2 = j_strlen(Str2);
22     if ( v8 > v2 )
23         break;
24     if ( Str2[j] == 111 )
25         Str2[j] = 48;
26 }
27 sub_1400111D1("input the flag:");
28 sub_14001128F("%20s", &Str1);
29 v3 = j_strlen(Str2);
30 if ( !strcmp(&Str1, Str2, v3) )
31     sub_1400111D1("this is the right flag!\n");
32 else
33     sub_1400111D1("wrong flag\n");
34 sub_14001113B(&v5, &unk_140019D00);
35 return 0i64;
36 }
```

Output window:

```
14001113B: using guessed type __int64 __fastcall sub_14001113B(_QWORD, _QWORD);
1400111D1: using guessed type __int64 __fastcall sub_1400111D1(_QWORD);
14001128F: using guessed type __int64 __fastcall sub_14001128F(_QWORD, _QWORD);
```

```
.data:000000014001C000 ; Segment permissions: Read/Write
.data:000000014001C000 _data segment para public 'DATA' use64
.data:000000014001C000 assume cs:_data
.data:000000014001C000 ;org 14001C00h
.data:000000014001C000 ; char Str2[]
.data:000000014001C000 Str2 db '{hello_world}',0 ; DATA XREF: sub_1400118C0+4B70
.data:000000014001C000 ; sub_1400118C0+6770 ...
.data:000000014001C00E align 10h
.data:000000014001C010 ; uintptr_t _security_cookie
.data:000000014001C010 __security_cookie dq 2B992DDFA232h ; DATA XREF: sub_1400118C0+1E1r
.data:000000014001C010 ; __security_check_cookie1r ...
.data:000000014001C018 qword_14001C018 dq 0FFFFD466D2205DCDh ; DATA XREF: __report_gsfailure+B41r
.data:000000014001C018 ; sub_140013E50+2A1w ...
.data:000000014001C020 db 0
.data:000000014001C021 db 0
.data:000000014001C022 db 0
.data:000000014001C023 db 0
.data:000000014001C024 db 0
.data:000000014001C025 db 0
.data:000000014001C026 db 0
.data:000000014001C027 db 0
.data:000000014001C028 dword_14001C028 dd 1 ; DATA XREF: .text:000000014001271F1r
.data:000000014001C028 ; .text:0000000140012FE870
.data:000000014001C02C db 1
.data:000000014001C02D db 0
.data:000000014001C02E db 0
.data:000000014001C02F db 0
.data:000000014001C030 dword_14001C030 dd 1 ; DATA XREF: sub_140012780+241r
.data:000000014001C034 dword_14001C034 dd 1 ; DATA XREF: sub_140012D10+1F1r
.data:000000014001C038 dword_14001C038 dd 1 ; DATA XREF: sub_140012520+1E1r
.data:000000014001C03C align 20h
.data:000000014001C040 db 0FFh
```

Output window:

```
14001113B: using guessed type __int64 __fastcall sub_14001113B(_QWORD, _QWORD);
1400111D1: using guessed type __int64 __fastcall sub_1400111D1(_QWORD);
14001128F: using guessed type __int64 __fastcall sub_14001128F(_QWORD, _QWORD);
```

## 3 Reverse2

### 3、Reverse2 几乎明码

IDA - reverse\_2 C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa10244.33300\reverse\_2

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- init\_proc
- sub\_4005E0
- puts
- strlen
- \_\_stack\_chk\_fail
- printf
- \_\_libc\_start\_main
- strcmp
- \_\_gmon\_start\_\_
- waitpid
- \_isoc99\_scanf
- fork
- \_start
- deregister\_tm\_clones
- register\_tm\_clones
- \_\_do\_global\_dtors\_aux
- frame\_dummy
- main
- \_\_libc\_csu\_init
- \_\_libc\_csu\_fini
- \_\_term\_proc
- \_\_puts
- \_\_strlen
- \_\_stack\_chk\_fail
- \_\_printf
- \_\_libc\_start\_main
- \_\_strcmp
- \_\_waitpid
- \_\_isoc99\_scanf
- \_\_fork

```
.data:000000000060107A db 0
.data:000000000060107B db 0
.data:000000000060107C db 0
.data:000000000060107D db 0
.data:000000000060107E db 0
.data:000000000060107F db 0
.data:0000000000601080 public flag
.data:0000000000601080 ; char flag
.data:0000000000601080 flag db '{hacking_for_fun}',0
; DATA XREF: main+341r
; main+441r ...
.data:0000000000601080 __data ends
.data:0000000000601080
.bss:0000000000601092 ; =====
.bss:0000000000601092
.bss:0000000000601092 ; Segment type: Uninitialized
.bss:0000000000601092 ; Segment permissions: Read/Write
.bss:0000000000601092 __bss segment byte public 'BSS' use64
.bss:0000000000601092 assume cs:_bss
.bss:0000000000601092 ;org 601092h
.bss:0000000000601092 assume es:nothing, ss:nothing, ds:_data, fs:nothing, gs:nothing
.bss:0000000000601092 public __bss_start
.bss:0000000000601092 __bss_start db ?
; DATA XREF: __do_global_dtors_aux1r
; __do_global_dtors_aux+131w
; Alternative name is '_edata'
; completed.6973
; _edata
.bss:0000000000601093 align 8
.bss:0000000000601093 __bss ends
.bss:0000000000601093
.prgend:0000000000601098 ; =====
.prgend:0000000000601098
```

00001080 0000000000601080: .data:flag (Synchronized with Hex View-1)

Output window

Function argument information has been propagated  
The initial autoanalysis has been finished.  
400670: using guessed type \_\_int64 \_\_fastcall \_\_isoc99\_scanf(\_QWORD, \_QWORD);

Python

AU: idle Down Disk: 62GB

IDA - reverse\_2 C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa10244.33300\reverse\_2

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- init\_proc
- sub\_4005E0
- puts
- strlen
- \_\_stack\_chk\_fail
- printf
- \_\_libc\_start\_main
- strcmp
- \_\_gmon\_start\_\_
- waitpid
- \_isoc99\_scanf
- fork
- \_start
- deregister\_tm\_clones
- register\_tm\_clones
- \_\_do\_global\_dtors\_aux
- frame\_dummy
- main
- \_\_libc\_csu\_init
- \_\_libc\_csu\_fini

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     int result; // eax
4     int stat_loc; // [rsp+4h] [rbp-3Ch]
5     int i; // [rsp+8h] [rbp-38h]
6     __pid_t pid; // [rsp+Ch] [rbp-34h]
7     char s2; // [rsp+10h] [rbp-30h]
8     unsigned __int64 v8; // [rsp+28h] [rbp-18h]
9
10    v8 = __readfsqword(0x28u);
11    pid = fork();
12    if ( pid )
13    {
14        argv = (const char **) &stat_loc;
15        waitpid(pid, &stat_loc, 0);
16    }
17    else
18    {
19        for ( i = 0; i <= strlen(flag); ++i )
20        {
21            if ( flag[i] == 'i' || flag[i] == 'r' )
22                flag[i] = '1';
23        }
24        printf("input the flag:", argv);
25        __isoc99_scanf("%20s", &s2);
26        if ( !strcmp(flag, &s2) )
27            result = puts("this is the right flag!");
28        else
29            result = puts("wrong flag!");
30        return result;
31    }
32}
```

00000795 main:11 (400795)

Output window

The initial autoanalysis has been finished.  
400670: using guessed type \_\_int64 \_\_fastcall \_\_isoc99\_scanf(\_QWORD, \_QWORD);  
400671: using guessed type \_\_int64 \_\_fastcall \_\_isoc99\_scanf(\_QWORD, \_QWORD);

Python

AU: idle Down Disk: 62GB

### 4 内涵的软件

## 4、内涵的软件明码

IDA - 70125468-0786-4705-bd91-87037f8f3e16.exe E:\下载\70125468-0786-4705-bd91-87037f8f3e16.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexolored External symbol

Functions window

Function name

- main
- sub\_40100A
- sub\_401010
- main\_0
- scanf
- printf
- chkesp
- start
- \_amsi\_exit
- \_fast\_error\_exit
- input
- \_hextodec
- \_inc
- \_un\_inc
- \_whiteout
- \_initstdio
- \_endstdio
- sub\_402A20
- \_CrtSetReportMode
- \_CrtSetReportFile
- \_CrtDbgReport
- \_CrtMessageWindow
- \_stbuf
- \_ftbuf
- sub\_4033F0
- \_write\_char
- \_write\_multi\_char
- \_write\_string
- \_get\_int\_arg
- \_get\_int64\_arg
- \_get\_short\_arg
- \_cinit
- \_exit
- \_cexit

```
2{
3 int result; // eax
4 char v1; // [esp+4Ch] [ebp-Ch]
5 const char *v2; // [esp+50h] [ebp-8h]
6 int v3; // [esp+54h] [ebp-4h]
7
8 v3 = 5;
9 v2 = "DBAPP{49d3c93df25caad81232130f3d2ebfad}";
10 while ( v3 >= 0 )
11 {
12     printf(&byte_4250EC, v3);
13     sub_40100A();
14     --v3;
15 }
16 printf(asc_425088);
17 v1 = 1;
18 scanf("%c", &v1);
19 if ( v1 == 'Y' )
20 {
21     printf(a0d);
22     result = sub_40100A();
23 }
24 else
25 {
26     if ( v1 == 'N' )
27         printf(&byte_425034);
28     else
29         printf(&byte_42501C);
30     result = sub_40100A();
31 }
32 return result;
33}
```

Line 1 of 206 000010E7\_main\_0:13 (4010E7)

Output window

Function argument information has been propagated  
The initial autoanalysis has been finished.  
401010: using guessed type int sub\_401010(void);

Python

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## 5 新年快乐

## 5、新年快乐 有壳先脱壳,之后是明码

IDA - 新年快乐.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa3712.25380\新年快乐.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- start
- TlsCallback\_0

IDA View-A Hex View-1 Structures Enums Imports Exports

```
UPX0:00401000 ; =====
UPX0:00401000 ;
UPX0:00401000 ; Segment type: Pure code
UPX0:00401000 ; Segment permissions: Read/Write/Execute
UPX0:00401000 UPX0      segment para public 'CODE' use32
UPX0:00401000      assume cs:UPX0
UPX0:00401000      ;org 401000h
UPX0:00401000      assume es:nothing, ss:nothing, ds:UPX0, fs:nothing, gs:nothing
UPX0:00401000      dd 0A0h dup(?)
UPX0:00401280      dword_401280      dd 0F65h dup(?)      ; CODE XREF: start+1A34j
UPX0:00405014      TlsIndex         dd 1FBh dup(?)      ; DATA XREF: UPX1:TlsIndex_ptr↓o
UPX0:00405014      UPX0             ends
UPX0:00405014
UPX1:0040D000 ; Section 2. (virtual address 0000D000)
UPX1:0040D000 ; Virtual size      : 00002000 ( 8192.)
UPX1:0040D000 ; Section size in file : 00001600 ( 5632.)
UPX1:0040D000 ; Offset to raw data for section: 00000200
UPX1:0040D000 ; Flags E000040: Data Executable Readable Writable
UPX1:0040D000 ; Alignment      : default
UPX1:0040D000 ; =====
UPX1:0040D000 ; Segment type: Pure code
UPX1:0040D000 ; Segment permissions: Read/Write/Execute
UPX1:0040D000 UPX1      segment para public 'CODE' use32
UPX1:0040D000      assume cs:UPX1
UPX1:0040D000      ;org 40D000h
UPX1:0040D000      assume es:nothing, ss:nothing, ds:UPX0, fs:nothing, gs:nothing
UPX1:0040D000      dd 4DA143A6h, 0C4945Ah, 12D900h, 6C9F00h, 2600h
UPX1:0040D014      db 0B2h
UPX1:0040D015      byte_40D015     db 0ECh, 0CCh, 0FFh      ; DATA XREF: start+14o
UPX1:0040D018      dd 0EC8353FFh, 308CA138h, 0C0850040h, 44C71C74h, 7000824h
UPX1:0040D018      dd 0DD860204h, 2404FBF6h, 24D0FF0Eh, 1110080Ch, 6EEDE826h
UPX1:0040D018
```

UNKNOWN 00401000: UPX0:00401000 (Synchronized with Hex View-1)

Output window

Propagating type information...  
Function argument information has been propagated.  
The initial autoanalysis has been finished.

Python

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IDA - 新年快乐\_dump\_SCY.exe E:\C盘瘦身搬家目录\新年快乐\_dump\_SCY.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- sub\_401000
- TopLevelExceptionHandler
- start
- sub\_4012E0
- sub\_40132C
- SetUnhandledExceptionHandler
- ExitProcess
- GetModuleHandleA
- GetProcAddress
- sub\_401360
- sub\_4013B0
- sub\_401450
- sub\_401530
- sub\_401540
- sub\_4015A0
- sub\_4016B0
- sub\_401890
- sub\_401910
- sub\_401930
- sub\_401AB0

IDA View-A Pseudocode-A Hex View-1 Structures Enums Imports Exports

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     int result; // eax
4     char v4; // [esp+12h] [ebp-3Ah]
5     __int16 v5; // [esp+20h] [ebp-2Ch]
6     __int16 v6; // [esp+22h] [ebp-2Ah]
7
8     sub_401910();
9     strcpy(&v4, "HappyNewYear!");
10    v5 = 0;
11    memset(&v6, 0, 0x1Eu);
12    printf("please input the true flag:");
13    scanf("%s", &v5);
14    if ( !strncmp((const char *)&v5, &v4, strlen(&v4)) )
15        result = puts("this is true flag!");
16    else
17        result = puts("wrong!");
18    return result;
19 }
```

Line 2 of 47

Graph overview

00001010\_main:16 (401C10)

Output window

Function argument information has been propagated.  
The initial autoanalysis has been finished.  
401910: using guessed type int sub\_401910(void);

Python

AU: idle Down Disk: 191GB

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## 6 Xor

## 6、Xor 就是简单的异或

IDA - xor C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa13568.5240\xor

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexcolored External symbol

Functions window

Function name

- get\_line
- main
- stack\_chk\_fail
- exit
- memset
- printf
- read
- strlen
- strcmp

```
00001050 0000000100001050 public_global
00001050 0000000100001050 ; char *global
00001050 0000000100001050 _global dq offset aFKWOXZUPFVMDGH
00001050 0000000100001050 ; DATA XREF: __main+10D1r
00001050 0000000100001050 _data ends ; "f\nk\fw&0.@\x11x\rZ;U\x11p\x19F\x1Fv\M"...
00001050 0000000100001050 ;
00001050 0000000100001050 ;
00001050 0000000100001050 ; Segment type: Externs
00001050 0000000100001050 ; UNDEF
00001050 0000000100001050 extrn __stack_chk_guard:qword ; DATA XREF: __got:__stack_chk_guard_ptrfo
00001050 0000000100001050 extrn dyld_stub_binder:qword ; DATA XREF: __nl_symbol_ptr:dyld_stub_binder_ptrfo
00001050 0000000100001050 extrn _imp__stack_chk_fail:qword ; DATA XREF: __la_symbol_ptr:__stack_chk_fail_ptrfo
00001050 0000000100001070 ; void __cdecl __noreturn__exit(int)
00001050 0000000100001070 extrn _imp__exit:qword ; DATA XREF: __la_symbol_ptr:__exit_ptrfo
00001050 0000000100001080 ; void *__cdecl __memset(void *, int, size_t)
00001050 0000000100001080 extrn _imp__memset:qword ; DATA XREF: __la_symbol_ptr:__memset_ptrfo
00001050 0000000100001088 ; int printf(const char *, ...)
00001050 0000000100001088 extrn _imp__printf:qword ; DATA XREF: __la_symbol_ptr:__printf_ptrfo
00001050 0000000100001090 ; ssize_t __cdecl __read(int, void *, size_t)
00001050 0000000100001090 extrn _imp__read:qword ; DATA XREF: __la_symbol_ptr:__read_ptrfo
00001050 0000000100001098 ; size_t __cdecl __strlen(const char *)
00001050 0000000100001098 extrn _imp__strlen:qword ; DATA XREF: __la_symbol_ptr:__strlen_ptrfo
00001050 0000000100001098 ;
```

Output window

The initial autoanalysis has been finished.

100000C0: using guessed type \_\_int64 \_\_fastcall get\_line(\_QWORD, \_QWORD);

100000D70: using guessed type char var\_110[264];

Python

Alt: idle Down Disk: 62GB

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IDA - xor C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa13568.5240\xor

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexcolored External symbol

Functions window

Function name

- get\_line
- main
- stack\_chk\_fail
- exit
- memset
- printf
- read
- strlen
- strcmp

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     char *v3; // rsi
4     int result; // eax
5     signed int i; // [rsp+2Ch] [rbp-124h]
6     char v6[264]; // [rsp+40h] [rbp-110h]
7     __int64 v7; // [rsp+148h] [rbp-8h]
8
9     memset(v6, 0, 0x100uLL);
10    v3 = (char *)256;
11    printf("Input your flag:\n", 0LL);
12    get_line(v6, 256LL);
13    if ( strlen(v6) != 33 )
14        goto LABEL_12;
15    for ( i = 1; i < 33; ++i )
16        v6[i] ^= v6[i - 1];
17    v3 = global;
18    if ( !strcmp(v6, global, 0x21uLL) )
19        printf("Success", v3);
20    else
21    LABEL_12:
22        printf("Failed", v3);
23    result = __stack_chk_guard;
24    if ( __stack_chk_guard == v7 )
25        result = 0;
26    return result;
27 }
```

Graph overview

00000D70\_main:1 (100000D70)

Output window

100000D70: using guessed type char var\_110[264];

100000C0: using guessed type \_\_int64 \_\_fastcall get\_line(\_QWORD, \_QWORD);

100000D70: using guessed type char var\_110[264];

Python

Alt: idle Down Disk: 62GB

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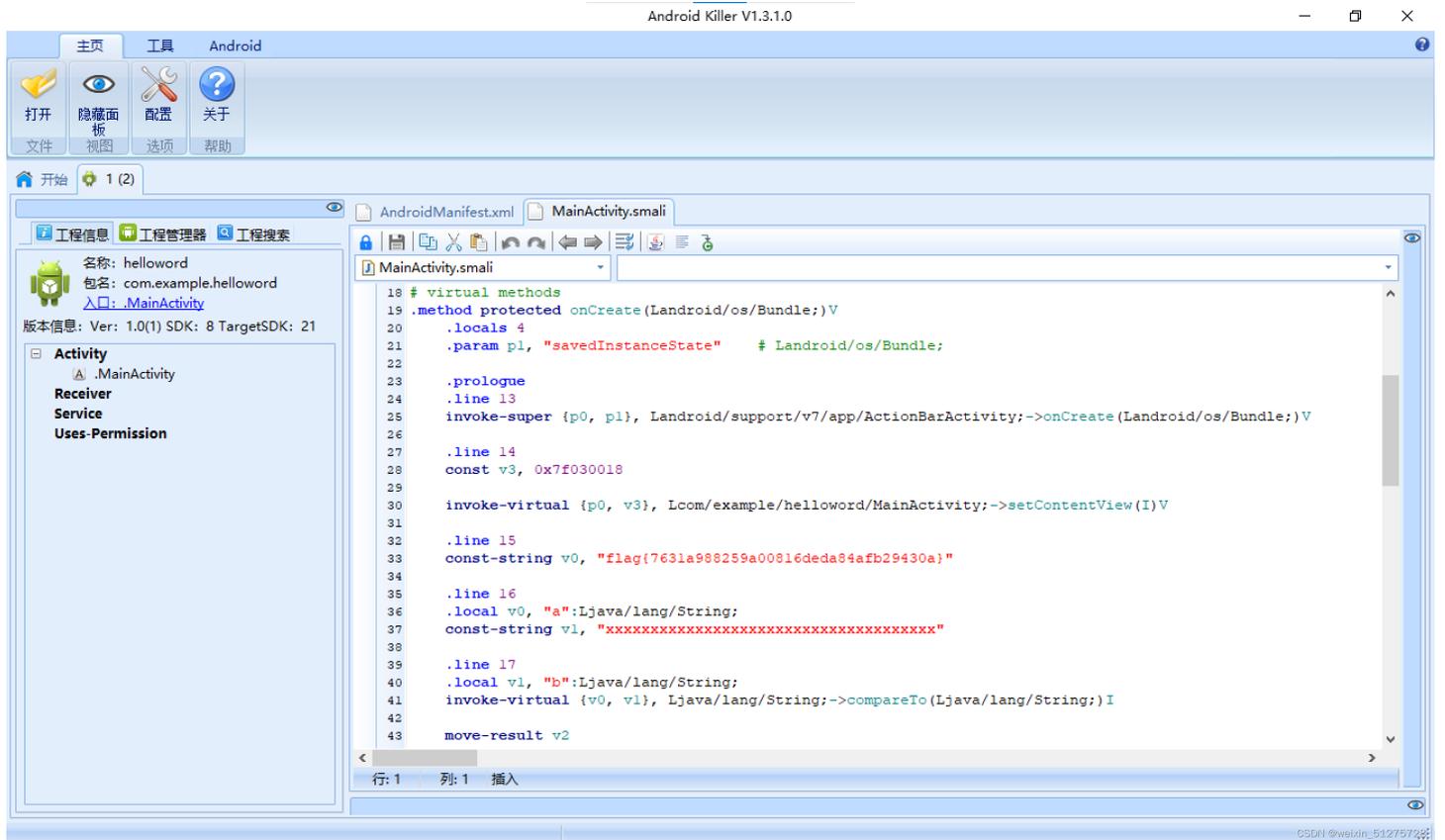
```

#include < iostream>
using namespace std;
int main(){
char miwen[34] =
{
    0x66, 0x0A, 0x6B, 0x0C, 0x77, 0x26, 0x4F, 0x2E, 0x40, 0x11,
    0x78, 0x0D, 0x5A, 0x3B, 0x55, 0x11, 0x70, 0x19, 0x46, 0x1F,
    0x76, 0x22, 0x4D, 0x23, 0x44, 0x0E, 0x67, 0x06, 0x68, 0x0F,
    0x47, 0x32, 0x4F, 0x00
};
for(int i=0;i<33;i++)
{char p=miwen[i]^miwen[i+1];
cout<<p;
}}

```

## 7 helloworld

### 7、helloworld 明码



## 9 不一样的flag

# 9不一样的flag 迷宫

IDA - 不一样的flag.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa8144.22773\不一样的flag.exe

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    char v3; // [esp+17h] [ebp-35h]
    int v4; // [esp+30h] [ebp-1Ch]
    int v5; // [esp+34h] [ebp-18h]
    signed int v6; // [esp+38h] [ebp-14h]
    int i; // [esp+3Ch] [ebp-10h]
    int v8; // [esp+40h] [ebp-Ch]

    __main();
    v4 = 0;
    v5 = 0;
    qmemcpy(&v3, _data_start, 0x19u);
    while ( 1 )
    {
        puts("you can choose one action to execute");
        puts("1 up");
        puts("2 down");
        puts("3 left");
        printf("4 right\n:");
        scanf("%d", &v6);
        if ( v6 == 2 )
        {
            ++v4;
        }
        else if ( v6 > 2 )
        {
            if ( v6 == 3 )
            {
                --v5;
            }
        }
        else
    }
```

Line 9 of 52 00000763 \_\_main:12 (401363)

Output window  
401A90: using guessed type int \_\_main(void);  
B: found interdependent unknown calls  
401A90: using guessed type int \_\_main(void);  
Python  
AU: idle Down Disk: 61GB

IDA - 不一样的flag.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa8144.22773\不一样的flag.exe

```
.data:00402000 ;
.data:00402000 ; Segment type: Pure data
.data:00402000 ; Segment permissions: Read/Write
.data:00402000 _data segment dword public 'DATA' use32
.data:00402000 assume cs:_data
.data:00402000 ;org 40200h
.data:00402000 public __data_start__
.data:00402000 __data_start__ db '11110100001010000101111#',0
.data:00402000 ; DATA XREF: __main+2510
.data:00402010 align 4
.data:00402010 public __CRT_glob
.data:00402010 __CRT_glob dd 0FFFFFFFh ; DATA XREF: __mingw_CRTStartup+4A1r
.data:00402020 ; int _fmode
.data:00402020 _fmode dd 4000h ; DATA XREF: __mingw_CRTStartup+861w
; DATA XREF: __mingw_CRTStartup+C71r
.data:00402024 ; DATA XREF: __do_global_dtors1r
; DATA XREF: __do_global_dtors+121r ...
.data:00402024 _p_1761 dd 401DBCh
; DATA XREF: __gcc_register_frame1r
; DATA XREF: __gcc_register_frame+3810
.data:00402028 _data_0 dd 0
.data:0040202C public __data_end__
.data:0040202C __data_end__ db 0
.data:0040202D db 0
.data:0040202E db 0
.data:0040202F db 0
.data:00402030 db 0
.data:00402031 db 0
.data:00402032 db 0
.data:00402033 db 0
.data:00402034 db 0
.data:00402035 db 0
```

Line 9 of 52 00001200 00402000: .data:\_\_data\_start\_\_ (Synchronized with Hex View-1)

Output window  
401A90: using guessed type int \_\_main(void);  
B: found interdependent unknown calls  
401A90: using guessed type int \_\_main(void);  
Python  
AU: idle Down Disk: 61GB

1 上 2 下 3 左 4 右

\*1111  
01000  
01010  
00010  
1111#  
222441144222

## 10 simplerev

### 10SimpleRev

```
1 unsigned __int64 Decry()  
2 {  
3     char v1; // [rsp+fh] [rbp-51h]  
4     int v2; // [rsp+10h] [rbp-50h]  
5     int v3; // [rsp+14h] [rbp-4Ch]  
6     int i; // [rsp+18h] [rbp-48h]  
7     int v5; // [rsp+1Ch] [rbp-44h]  
8     char src[8]; // [rsp+20h] [rbp-40h]  
9     __int64 v7; // [rsp+28h] [rbp-38h]  
10    int v8; // [rsp+30h] [rbp-30h]  
11    __int64 v9; // [rsp+40h] [rbp-20h]  
12    __int64 v10; // [rsp+48h] [rbp-18h]  
13    int v11; // [rsp+50h] [rbp-10h]  
14    unsigned __int64 v12; // [rsp+58h] [rbp-8h]  
15  
16    v12 = __readfsqword(0x28u);  
17    *(_QWORD *)src = 'SLCDN';  
18    v7 = 0LL;  
19    v8 = 0;  
20    v9 = 'wodah';  
21    v10 = 0LL;  
22    v11 = 0;  
23    text = join(key3, (const char *)&v9);  
24    strcpy(key, key1);  
25    strcat(key, src);  
26    v2 = 0;  
27    v3 = 0;  
28    getchar();  
29    v5 = strlen(key);  
30    for ( i = 0; i < v5; ++i )  
31    {  
32        if ( key[v3 % v5] > '@' && key[v3 % v5] <= 'Z' )
```

Output window  
93A: using guessed type \_\_int64 Decry(void);  
BE4: using guessed type \_\_int64 Exit(void);  
C62: using guessed type \_\_int64 \_\_fastcall join(\_QWORD, \_QWORD);

```
36    printf("Please input your flag:", src);  
37    while ( 1 )  
38    {  
39        v1 = getchar();  
40        if ( v1 == 10 )  
41            break;  
42        if ( v1 == 32 )  
43        {  
44            ++v2;  
45        }  
46        else  
47        {  
48            if ( v1 <= 96 || v1 > 122 )  
49            {  
50                if ( v1 > 64 && v1 <= 90 )  
51                    str2[v2] = (v1 - 39 - key[v3++ % v5] + 97) % 26 + 97;  
52                else  
53                {  
54                    str2[v2] = (v1 - 39 - key[v3++ % v5] + 97) % 26 + 97;  
55                }  
56            }  
57            if ( !(v3 % v5) )  
58                putchar(32);  
59            ++v2;  
60        }  
61    }  
62    if ( !strcmp(text, str2) )  
63        puts("Congratulation!\n");  
64    else  
65        puts("Try again!\n");  
66    return __readfsqword(0x28u) ^ v12;  
67 }
```

Output window  
93A: using guessed type \_\_int64 Decry(void);  
BE4: using guessed type \_\_int64 Exit(void);  
C62: using guessed type \_\_int64 \_\_fastcall join(\_QWORD, \_QWORD);



IDA - reverse\_3.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa15852.12203\reverse\_3.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

```

37  ++v13;
38  }
39  if ( !i )
40  break;
41  switch ( i )
42  {
43  case 1:
44  *(Dst + v7) = aAbcdefghijklmn[byte_41A144[0] >> 2];
45  v4 = v7 + 1;
46  *(Dst + v4++) = aAbcdefghijklmn[((byte_41A144[1] & 0xF0) >> 4) | 16 * (byte_41A144[0] & 3)];
47  *(Dst + v4++) = aAbcdefghijklmn[64];
48  *(Dst + v4) = aAbcdefghijklmn[64];
49  v7 = v4 + 1;
50  break;
51  case 2:
52  *(Dst + v7) = aAbcdefghijklmn[byte_41A144[0] >> 2];
53  v5 = v7 + 1;
54  *(Dst + v5++) = aAbcdefghijklmn[((byte_41A144[1] & 0xF0) >> 4) | 16 * (byte_41A144[0] & 3)];
55  *(Dst + v5++) = aAbcdefghijklmn[(byte_41A144[2] & 0xC0) >> 6] | 4 * (byte_41A144[1] & 0xF)];
56  *(Dst + v5) = aAbcdefghijklmn[64];
57  v7 = v5 + 1;
58  break;
59  case 3:
60  *(Dst + v7) = aAbcdefghijklmn[byte_41A144[0] >> 2];
61  v6 = v7 + 1;
62  *(Dst + v6++) = aAbcdefghijklmn[((byte_41A144[1] & 0xF0) >> 4) | 16 * (byte_41A144[0] & 3)];
63  *(Dst + v6++) = aAbcdefghijklmn[(byte_41A144[2] & 0xC0) >> 6] | 4 * (byte_41A144[1] & 0xF)];
64  *(Dst + v6) = aAbcdefghijklmn[byte_41A144[2] & 0x3F];
65  v7 = v6 + 1;
66  break;
67  }
68  }

```

Line 9 of 274 0000FF9 sub\_411A0:37 (411BF9)

Output window

```

411154: using guessed type int j_report_rangecheckfailure(void);
411375: using guessed type _DWORD sub_411375(const char *, ...);
4156E0: using guessed type char Dest[108];

```

Python

AU: idle Down Disk: 61GB CSDN @weixin\_51275728

IDA - reverse\_3.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa15852.12203\reverse\_3.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

```

10 char v8; // [esp+0h] [ebp-188h]
11 signed int j; // [esp+0Ch] [ebp-ACh]
12 signed int i; // [esp+E8h] [ebp-A0h]
13 signed int v11; // [esp+E8h] [ebp-A0h]
14 char Dest[108]; // [esp+F4h] [ebp-94h]
15 char Str; // [esp+160h] [ebp-28h]
16 char v14; // [esp+17Ch] [ebp-Ch]
17
18 for ( i = 0; i < 100; ++i )
19 {
20 if ( i >= 0x64 )
21 j_report_rangecheckfailure();
22 Dest[i] = 0;
23 }
24 sub_41132F("please enter the flag:", v7);
25 LODWORD(v0) = &Str;
26 sub_411375("%20s", &Str, *(&v0 + 1));
27 v1 = j_strlen(&Str);
28 v2 = sub_4110BE(&Str, v1, &v14);
29 strncpy(Dest, v2, 0x28u);
30 v11 = j_strlen(Dest);
31 for ( j = 0; j < v11; ++j )
32 Dest[j] += j;
33 v3 = j_strlen(Dest);
34 if ( !strcmp(Dest, Str2, v3) )
35 sub_41132F("right flag!\n", v8);
36 else
37 sub_41132F("wrong flag!\n", v8);
38 HIDWORD(v5) = v4;
39 LODWORD(v5) = 0;
40 return v5;
41 }

```

Line 9 of 274 00004B8F\_main\_0:28 (41578F)

Output window

```

411154: using guessed type int j_report_rangecheckfailure(void);
411375: using guessed type _DWORD sub_411375(const char *, ...);
4156E0: using guessed type char Dest[108];

```

Python

AU: idle Down Disk: 61GB CSDN @weixin\_51275728

```

#include <iostream>
using namespace std;
int main(){
    string p="e3nifIH9b_C@n@dH";
    for(int i=0;i<p.length();i++)
    p[i]-=i;
    cout<<p;
}

```

再base64 解码即可

## 11 java

11 java 逆向解密密，用gui

Reverse.class - Java Decompiler

File Edit Navigation Search Help

```
Rar$DRa9644.29666:
Reverse.class
Reverse.class:
import java.io.PrintStream;
import java.util.ArrayList;
import java.util.Scanner;

public class Reverse
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Please input the flag : ");
        String str = s.next();
        System.out.println("Your input is : ");
        System.out.println(str);
        char[] stringArr = str.toCharArray();
        Encrypt(stringArr);
    }

    public static void Encrypt(char[] arr)
    {
        ArrayList<Integer> Resultlist = new ArrayList();
        for (int i = 0; i < arr.length; i++)
        {
            int result = arr[i] + '@' ^ 0x20;
            Resultlist.add(Integer.valueOf(result));
        }
        int[] KEY = { 180, 136, 137, 147, 191, 137, 147, 191, 148, 136, 133, 191, 134, 140, 129, 135, 191, 65 };
        ArrayList<Integer> KEYList = new ArrayList();
        for (int j = 0; j < KEY.length; j++) {
            KEYList.add(Integer.valueOf(KEY[j]));
        }
        System.out.println("Result:");
        if (Resultlist.equals(KEYList)) {
            System.out.println("Congratulations! ");
        } else {
            System.err.println("Error! ");
        }
    }
}
```

CSDN @weixin\_51275728

```
#include <iostream>
using namespace std;
int main(){
    int key[] = { 180, 136, 137, 147, 191, 137, 147, 191, 148, 136, 133, 191, 134, 140, 129, 135, 191, 65 };
    for(int i=0;i<18;i++){
        char p=key[i]- '@'^0x20;
        cout<<p;
    }
}
```

## 12 luckgay

# 12luckgay

IDA - luck\_guy C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa13104.11293\luck\_guy

File Edit Jump Search View Debugger Options Windows Help

The screenshot shows the IDA Pro interface with the assembly view of a function named 'get\_flag'. The assembly code includes instructions for loading data, setting segment permissions, and defining public symbols like '\_bss\_start' and 'completed\_7594'. The output window shows the following disassembly:

```
4007A6: using guessed type __int64 __fastcall welcome(_QWORD, _QWORD, _QWORD);
400670: using guessed type __int64 __fastcall __isoc99_scanf(_QWORD, _QWORD);
4007CB: using guessed type __int64 get_flag(void);
```

Python

IDA - luck\_guy C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa13104.11293\luck\_guy

File Edit Jump Search View Debugger Options Windows Help

The screenshot shows the IDA Pro interface with the assembly view of a function named 'get\_flag'. The assembly code includes a switch statement with cases for 'case 1' through 'case 5'. The output window shows the following disassembly:

```
4007A6: using guessed type __int64 __fastcall welcome(_QWORD, _QWORD, _QWORD);
400670: using guessed type __int64 __fastcall __isoc99_scanf(_QWORD, _QWORD);
4007CB: using guessed type __int64 get_flag(void);
```

Python

AU: idle Down Disk: 61GB

CSDN @weixin\_51275728

```
#include <iostream>
using namespace std;
int main(){
    int p[]={0x69,0x63,0x75,0x67,0x60,0x6f,0x66,0x7f};
    for(int i=0;i<8;i++){
        if(i%2==1)
            p[i]-=2;
        else p[i]-=1;
        char x=p[i];
        cout<<x;
    }
}
```

## 13 刮开有奖

## 13 刮开有奖

IDA - 8f80610b-8701-4c7f-ad60-63861a558a5b.exe E:\下载\8f80610b-8701-4c7f-ad60-63861a558a5b.exe

File Edit Jump Search View Debugger Options Windows Help

```
45 v14 = 72;
46 v15 = 51;
47 v16 = 110;
48 v17 = 103;
49 sub_4010F0(v7, 0, 10);
50 memset(&v26, 0, 0xFFFFFu);
51 v26 = v23;
52 v28 = v25;
53 v27 = v24;
54 v4 = sub_401000(&v26, strlen(&v26));
55 memset(&v26, 0, 0xFFFFFu);
56 v27 = v21;
57 v26 = v20;
58 v28 = v22;
59 v5 = sub_401000(&v26, strlen(&v26));
60 if ( String == 07 + 34
61     && v19 == v11
62     && 4 * v20 - 141 == 3 * v9
63     && v21 / 4 == 2 * (v14 / 9)
64     && !strcmp(v4, "ak1w")
65     && !strcmp(v5, "V1Ax") )
66 {
67     MessageBoxA(hDlg, "U g3t 1T!", "@_@", 0);
68 }
69 }
70 return 0;
71 }
72 if ( a3 != 1 && a3 != 2 )
73     return 0;
74 EndDialog(hDlg, a3);
75 return 1;
76 }
```

Line 3 of 144 00000790 DialogFunc:61 (401390)

Output window

hx:GenPseudo (Generate pseudocode)  
Executing last-registered action: hx:GenPseudo (Generate pseudocode)  
401000: using guessed type \_DWORD \_\_cdecl sub\_401000(\_DWORD, \_DWORD);

Python

IDA - 8f80610b-8701-4c7f-ad60-63861a558a5b.exe E:\下载\8f80610b-8701-4c7f-ad60-63861a558a5b.exe

File Edit Jump Search View Debugger Options Windows Help

```
.rdata:00407827 db 0F7h
.rdata:00407828 db 0F8h
.rdata:00407829 db 0F9h
.rdata:0040782A db 0FAh
.rdata:0040782B db 0FBh
.rdata:0040782C db 0FCh
.rdata:0040782D db 0FDh
.rdata:0040782E db 0FEh
.rdata:0040782F db 0FFh
.rdata:00407830 ; char byte_407830[]
.rdata:00407830 byte_407830 db 41h ; DATA XREF: sub_401000+C01r
.rdata:00407831 abcdefghijklmno db 'BCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/',0
.rdata:00407872 align 4
.rdata:00407874 aAk1w db 'ak1w',0 ; DATA XREF: DialogFunc+24D1o
.rdata:00407879 align 4
.rdata:0040787C aV1ax db 'V1Ax',0 ; DATA XREF: DialogFunc+27D1o
.rdata:00407881 align 4
.rdata:00407884 ; CHAR Caption[]
.rdata:00407884 Caption db '@_@',0 ; DATA XREF: DialogFunc+2AE1o
.rdata:00407888 ; CHAR Text[]
.rdata:00407888 Text db 'U g3t 1T!',0 ; DATA XREF: DialogFunc+2B31o
.rdata:00407892 align 8
.rdata:00407898 __load_config_used dd 48h ; Size
.rdata:0040789C dd 0 ; Time stamp
.rdata:004078A0 dw 2 dup(0) ; Version: 0.0
.rdata:004078A4 dd 0 ; GlobalFlagsClear
.rdata:004078A8 dd 0 ; GlobalFlagsSet
.rdata:004078AC dd 0 ; CriticalSectionDefaultTimeout
.rdata:004078B0 dd 0 ; DeCommitFreeBlockThreshold
.rdata:004078B4 dd 0 ; DeCommitTotalFreeThreshold
.rdata:004078B8 dd 0 ; LockPrefixTable
.rdata:004078BC dd 0 ; MaximumAllocationSize
```

Line 3 of 144 0000662B:0040782B: .rdata:0040782B (Synchronized with Hex View-1)

Output window

hx:GenPseudo (Generate pseudocode)  
Executing last-registered action: hx:GenPseudo (Generate pseudocode)  
401000: using guessed type \_DWORD \_\_cdecl sub\_401000(\_DWORD, \_DWORD);

Python

IDA - 8f80610b-8701-4c7f-ad60-63861a558a5b.exe E:\下载\8f80610b-8701-4c7f-ad60-63861a558a5b.exe

程序处理+base64

sub\_4010c0

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

```
#include<iostream>
```

```
using namespace std;
```

```
int sub(char a1[], int a2, int a3)
```

```

{
    int result; // eax
    int i; // esi
    int v5; // ecx
    int v6; // edx

    result = a3;
    for ( i = a2; i <= a3; a2 = i )
    {
        v5 = i;
        //v6 = *(DWORD*)(4 * i + a1);
        v6 = a1[i];
        if ( a2 < result && i < result )
        {
            do
            {
                //if ( v6 > *(DWORD*)(a1 + 4 * result) )
                if ( v6 > a1[result] )
                {
                    if ( i >= result )
                        break;
                    ++i;
                    //*(DWORD*)(v5 + a1) = *(DWORD*)(a1 + 4 * result);
                    a1[v5] = a1[result];
                    if ( i >= result )
                        break;
                    //while ( *(DWORD*)(a1 + 4 * i) <= v6 )
                    while ( a1[i] <= v6 )
                    {
                        if ( ++i >= result )
                            goto LABEL_13;
                    }
                    if ( i >= result )
                        break;
                    v5 = i;
                    //*(DWORD*)(a1 + 4 * result) = *(DWORD*)(4 * i + a1);
                    a1[result] = a1[i];
                }
                --result;
            }
            while ( i < result );
        }
    }
LABEL_13:
    //*(DWORD*)(a1 + 4 * result) = v6;
    a1[result] = v6;
    sub(a1, a2, i - 1);
    result = a3;
    ++i;
}
return result;
}

int main()
{
    char a[11]={90,74,83,69,67,97,78,72,51,110,103};
    cout<<">>>>sub"<<endl;
    sub(a,0,10);
    for (int i=0;i<11;i++)
    {
        cout<<"a["<<i+7<<"]"<<a[i]<<" "<<int(a[i])<<endl;
    }
}

```

```

cout<<a[i]<<" ";
}
}

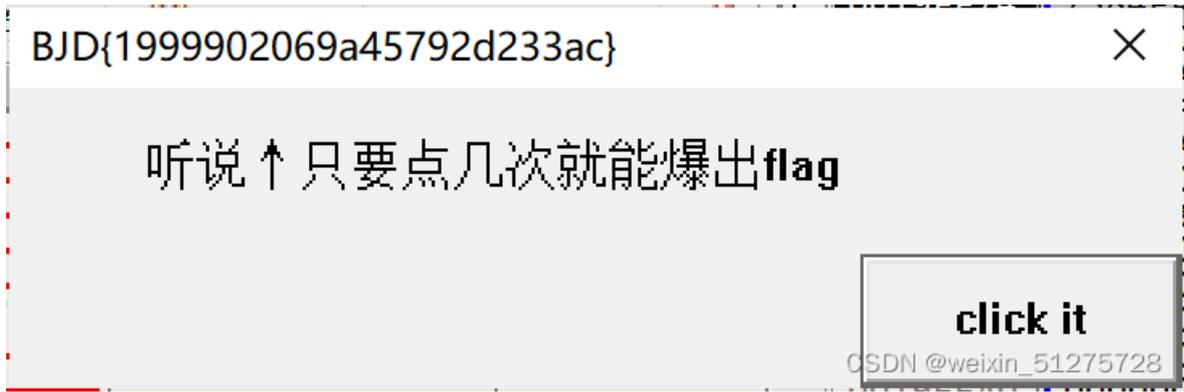
```

# 14 JustRE

14 JustRE先开始以为是直接的明码，发现不是，动调爆破

The image displays two windows from a reverse engineering session:

- IDA Pro (top):** Shows the assembly code for a function. The JustRE engine has identified several instructions as `jne attachment(1).4013E0`, `je attachment(1).4013E8`, `je attachment(1).4013E8`, `call attachment(1).401410`, and `jne attachment(1).4013D0`. The assembly includes instructions like `dec eax`, `mov eax, dword ptr ss:[esp+70]`, `cmp ax, 1`, `mov eax, dword ptr ds:[4099F0]`, `inc eax`, `mov dword ptr ds:[4099F0], eax`, `lea eax, dword ptr ss:[esp+4]`, `push attachment(1).40704C`, `push eax`, `mov eax, dword ptr ds:[4099F0]`, `add esp, C`, `cmp eax, 1`, `nop`, `push 0`, `push 4E1F`, `lea ecx, dword ptr ss:[esp+8]`, `push attachment(1).407030`, `push ecx`, `call attachment(1).401410`, `mov eax, dword ptr ss:[esp+78]`, `add esp, 10`, and `lea edx, dword ptr ss:[esp+10]`.
- x32dbg (bottom):** Shows the execution flow of the code. The CPU registers window on the right shows:
  - EAX: 0019FFCC
  - EBX: 003C3000
  - ECX: 00401462
  - EDX: 00401462
  - EBP: 0019FF80
  - ESP: 0019FF74
  - ESI: 00401462
  - EDI: 00401462
  - EIP: 00401462
  - EFLAGS: 00000244
  - ZF: 1, PF: 1, AF: 0, CF: 0, SF: 0, DF: 0, OF: 0, TF: 0, IF: 1
  - LastError: 000036B7 (ERROR\_SXS\_KEY\_NOT\_FOUND)
  - LastStatus: C0150008 (STATUS\_SXS\_KEY\_NOT\_FOUND)
  - GS: 002B, FS: 0053, ES: 002B, DS: 002B, CS: 0023, SS: 002B



(不爆破按19999下也行) 打开即可

## 15 findit

### 15 findit



```
#include <iostream>
using namespace std;
int main(){
char a[]={0x70,0x76,0x6b,0x71, 0x7b, 0x6d, 0x31,0x36,0x34, 0x36,0x37,0x35,0x32,0x36,0x32,0x30, 0x33,0x33,0x6c,0x
34,0x6d,0x34,0x39,0x6c,0x6e,0x70,0x37,0x70,0x39,0x6d,0x6e,0x6b,0x32,0x38,0x6b,0x37,0x35,0x7d};
for(int i=0;i<38;i++){
cout<<a[i]; }
}
```

然后凯撒 (看1第一个字符与第四个字符是否相邻, 是则基本上就是凯撒)

## 16 简单注册器

### 16 简单注册器

```

smali:
android/support
com/example/flag
BuildConfig.class
MainActivity$PlaceholderFragment.class
MainActivity.class
Anim.class
Attr.class
Color.class
Drawable.class
FragmentManager.class
Inflater.class
Layout.class
Menu.class
MenuItem.class
Parcelable.class
R.class
@MainActivity.class#
{
protected void onCreate(final Bundle paramBundle)
{
super.onCreate(paramBundle);
setContentView(2130903063);
if (paramBundle == null) {
getSupportFragmentManager().beginTransaction().add(2131034172, new PlaceholderFragment()).commit();
}
Button localButton = (Button)findViewById(2131034175);
paramBundle = (TextView)findViewById(2131034174);
localButton.setOnClickListener(new View.OnClickListener()
{
public void onClick(View paramAnonymousView)
{
int i = 1;
paramAnonymousView = this.val$editview.getText().toString();
if ((paramAnonymousView.length() != 32) || (paramAnonymousView.charAt(31) != 'a') || (paramAnonymousView.charAt(1) != 'b') || (paramAnonymousView.charAt(2) != 'c'))
i = 0;
if (i == 1)
{
paramAnonymousView = "dd2940c04462b4dd7c450528835cca15".toCharArray();
paramAnonymousView[2] = ((char)(char)(paramAnonymousView[2] + paramAnonymousView[3] - 50));
paramAnonymousView[4] = ((char)(char)(paramAnonymousView[2] + paramAnonymousView[5] - 48));
paramAnonymousView[30] = ((char)(char)(paramAnonymousView[31] + paramAnonymousView[9] - 48));
paramAnonymousView[14] = ((char)(char)(paramAnonymousView[27] + paramAnonymousView[28] - 97));
i = 0;
if (i >= 16)
{
paramAnonymousView = String.valueOf(paramAnonymousView);
paramBundle.setText("flag" + paramAnonymousView + "");
}
}
for (;;)
{
return;
int j = paramAnonymousView[(31 - i)];
paramAnonymousView[(31 - i)] = ((char)paramAnonymousView[i]);
paramAnonymousView[i] = ((char)j);
i++;
break;
paramBundle.setText("输入注册码错误");
}
}
});
}
}
public boolean onCreateOptionsMenu(Menu paramMenu)
{
}
}

```

```

#include <iostream>
using namespace std;
int main(){
string p="dd2940c04462b4dd7c450528835cca15";
p[2]=p[2]+p[3]-50;
p[4]=p[2]+p[5]-48;
p[30]=p[31]+p[9]-48;
p[14]=p[27]+p[28]-97;
cout<<p;
}

```

## 17 pyre

17 pyre python反编译 - 在线工具 (tool.lu)

#!/usr/bin/env python

<https://tool.lu/pyc/> for more information

```

print 'Welcome to Re World!'
print 'Your input1 is your flag~'
l = len(input1)
for i in range(l):
    num = ((input1[i] + i) % 128 + 128) % 128
    code += num

for i in range(l - 1):
    code[i] = code[i] ^ code[i + 1]

print code
code = [
    '\x1f',
    '\x12',
    '\x1d',
    '(',
    '0',
    '4',
    '\x01',
    '\x06',
    '\x14',
    '4',
    ',',
    '\x1b',
    'U',
    '?',
    'o',
    '6',
    '*',
    ':',
    '\x01',
    'D',
    ';',
    '%', '\x13']

```

```

#include <iostream>
using namespace std;
int main(){
char coder[]={0x13,'%',';',';', 'D',0x01,':','*', '6','o','?', 'U',0x1b,',',';', '4',0x14,0x06,0x01, '4','0','(',0x1d,0x12,0x1f};
char code[23];
for(int i=0;i<23;i++)
code[i]=coder[22-i];
for(int i=22;i>0;i--)
code[i-1]^=code[i];
for(int i=0;i<23;i++){
    code[i]=(code[i]-i)&0xff;
    cout<<code[i]; }
}

```

18 easyre

# 18.easyre 有壳, 脱壳, 壳没有完美脱出, 但够看了。

IDA - easyre\_dump\_SCY.exe E:\C盘瘦身搬家目录\easyre\_dump\_SCY.exe

File Edit Jump Search View Debugger Options Windows Help

Function name: sub\_401200

```
UPX0:00401D38 UPX0:00401D38 ; -----
UPX0:00401D39 UPX0:00401D39 ; align 10h
UPX0:00401D40 UPX0:00401D40 ; int dword_401D40[]
UPX0:00401D40 UPX0:00401D40 dd 0FFFFFFFh ; DATA XREF: sub_401A10-4C1r
UPX0:00401D40 UPX0:00401D40 ; sub_401A10:loc_4019D3Tr ...
UPX0:00401D44 UPX0:00401D44 dd offset sub_401D20
UPX0:00401D48 UPX0:00401D48 dd 0
UPX0:00401D4C UPX0:00401D4C dd 0FFFFFFFh
UPX0:00401D50 UPX0:00401D50 dd 0ACh dup(0) ; DATA XREF: UPX0:off_402088+0
UPX0:00402000 UPX0:00402000 ; char byte_402000[]
UPX0:00402000 UPX0:00402000 byte 402000 db 7Eh ; DATA XREF: _main+EC1r
UPX0:00402001 UPX0:00402001 aZyxwvutsrqponmlkjihgfedcba^_[ZYXWVUTSRQPONMLKJIHGFEDCBA?>=
UPX0:00402001 UPX0:00402001 db '<;9876543210/./.,+*)('&27h,'%$#!"',0
UPX0:00402000 UPX0:00402000 align 40h
UPX0:00402000 UPX0:00402000 dd 0FFFFFFFh ; DATA XREF: sub_401000+4A1r
UPX0:00402004 UPX0:00402004 dd 4000h ; DATA XREF: sub_401000+861r
UPX0:00402004 UPX0:00402004 ; sub_401000+C71r
UPX0:00402008 UPX0:00402008 off_402088 dd offset dword_401D50 ; DATA XREF: sub_4019901r
UPX0:00402008 UPX0:00402008 ; sub_401990+121r ...
UPX0:00402008 UPX0:00402008 dword_40208C dd 0 ; DATA XREF: sub_4012E01r
UPX0:0040200C UPX0:0040200C ; sub_4012E0+4010
UPX0:00402090 UPX0:00402090 align 1000h
UPX0:00403000 UPX0:00403000 ; CHAR ModuleName[]
UPX0:00403000 UPX0:00403000 ModuleName db 'libgcj-13.dll',0 ; DATA XREF: sub_4012E0+FT0
UPX0:0040300E UPX0:0040300E ; CHAR ProcName[]
UPX0:0040300E UPX0:0040300E ProcName db '_Jv_RegisterClasses',0
UPX0:0040300E UPX0:0040300E ; DATA XREF: sub_4012E0+2710
UPX0:00403022 UPX0:00403022 align 4
UPX0:00403024 UPX0:00403024 ; char aPleaseInput[]
UPX0:00403024 UPX0:00403024 aPleaseInput db 'Please input:',0 ; DATA XREF: _main+4A10
UPX0:00403032 UPX0:00403032 ; char aS[]
```

Line 2 of 45 00001401 00402001: UPX0:aZyxwvutsrqpon (Synchronized with Hex View-1)

Output window

```
401990: using guessed type int sub_401990();
401D40: using guessed type int dword_401D40[];
405024: using guessed type int dword_405024;
```

Python

Alt: idle Down Disk: 191GB CSDN @weixin\_51275728

IDA - easyre\_dump\_SCY.exe E:\C盘瘦身搬家目录\easyre\_dump\_SCY.exe

File Edit Jump Search View Debugger Options Windows Help

Function name: sub\_401A10

```
24 int v25; // [esp+37h] [ebp-9h]
25 char v26; // [esp+3Bh] [ebp-5h]
26 int i; // [esp+3Ch] [ebp-4h]
27
28 sub_401A10();
29 v4 = 42;
30 v5 = 70;
31 v6 = 39;
32 v7 = 34;
33 v8 = 78;
34 v9 = 44;
35 v10 = 34;
36 v11 = 40;
37 v12 = 73;
38 v13 = 63;
39 v14 = 43;
40 v15 = 64;
41 printf("Please input:");
42 scanf("%s", &v19);
43 if ( (_BYTE)v19 != 'A' || HIBYTE(v19) != 'C' || v20 != 'T' || v21 != 'F' || v22 != '{' || v26 != '}' )
44 return 0;
45 v16 = v23;
46 v17 = v24;
47 v18 = v25;
48 for ( i = 0; i <= 11; ++i )
49 {
50 if ( *(v4 + i) != byte_402000[*(char *)&v16 + i - 1] )
51 return 0;
52 }
53 printf("You are correct!");
54 return 0;
55
```

Line 2 of 45 0000074E \_main:29 (40134E)

Output window

```
401D40: using guessed type int dword_401D40[];
405024: using guessed type int dword_405024;
```

Command "ChartXrefsTo" failed

Python

Alt: idle Down Disk: 191GB CSDN @weixin\_51275728

```

#include < iostream>
using namespace std;
int main(){
string p="~}|{zyxwvutsrqponmlkjihgfedcba`_^]\[ZYXWVUTSRQPONMLKJIHGFEDCBA@?>=<;:9876543210/.-, +*)('&%$# !\''";
int v4 [12]={ 42,70,39,34,78,44,34,40,73,63,43,64};
for(int i=0;i<12;i++)
{for(int j=0;j<p.length();j++){
if(p[j]==v4[i]){
char pp=j+2;
cout<<pp;
break;
}}}}
}

```

## 19 rsa

## 19.Rsa算法

公钥解析

在线工具 买SSL证书 SSL在线工具 工具网

获取公钥的加密类型、加密长度、其他参数、以及DER格式输出。

```
-----BEGIN PUBLIC KEY-----
MDwDQYJKoZIhvcNAQEBBQADKwAwKAIhAMazLFxkrkcYL2wch2lCM2kQVFPy9+7+
/AvKrlrzQczdAgMBAAE=
-----END PUBLIC KEY-----
```

命令提示符

```
fac: factoring 86934482296048119190666062003494800588905656017203025617216654058378322103517
fac: using pretesting plan: normal
fac: no tune info: using qs/gnfs crossover of 95 digits
div: primes less than 10000
fnt: 100000 iterations
rho: x^2 + 3, starting 1000 iterations on C77
rho: x^2 + 2, starting 1000 iterations on C77
rho: x^2 + 1, starting 1000 iterations on C77
pnt: starting B1 = 150K, B2 = gmp-ecm default on C77
ecm: 30/30 curves on C77, B1=2K, B2=gmp-ecm default
ecm: 74/74 curves on C77, B1=11K, B2=gmp-ecm default
ecm: 149/149 curves on C77, B1=50K, B2=gmp-ecm default, ETA: 0 sec
starting SIQS on c77: 86934482296048119190666062003494800588905656017203025617216654058378322103517
==== sieving in progress (1 thread): 36224 relations needed ====
==== Press ctrl-c to abort and save state ====
36219 rels found: 18830 full + 17389 from 185805 partial. (1628.20 rels/sec)
SIQS elapsed time = 127.6148 seconds
Total factoring time = 149.6053 seconds

***factors found***
P39 = 304008741604601924494328155975272418463
P39 = 285960468890451637935629440372639283459
ans = 1
```

详细信息

密钥类型	RSA
密钥强度	256
PN(e)	65537
PN(n)	86934482296048119190666062003494800588905656017203025617216654058378322103517
DER格式	303c300d06092a864886f70d0101010500032b003028022100c0332c5c64ae47182f6c1c876d42336910545a58f7eeffefc0bcaaf5af341ccdd0203010001

CSDN @weixin\_51275729

命令提示符 - python

```
Microsoft Windows [版本 10.0.19043.1348]
(c) Microsoft Corporation. 保留所有权利。
C:\Users\lenovo>python
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit (AMD64)] on win32
Type "help()", "copyright()", "credits()", or "license()" for more information.
>>> import rsa
>>> n = 86934482296048119190666062003494800588905656017203025617216654058378322103517
>>> e = 65537
>>> d = 81176168860169991027846870170527607562179635470395365333547868786951080991411
>>> key = rsa.PrivateKey(n,e,d,q,p)
>>> key = rsa.PrivateKey(n,e,d,q,p)
>>> with open("E:\\flag.enc", "rb") as f:
... with open("E:\\flag.enc", "rb") as f:
... print(rsa.decrypt(f, key))
... f = f.read()
... b'flag<decrypt_256>\n'
>>> print(rsa.decrypt(f, key))
```

CSDN @weixin\_51275729

```
import rsa
e = 65537
n = 86934482296048119190666062003494800588905656017203025617216654058378322103517
p = 285960468890451637935629440372639283459
q = 304008741604601924494328155975272418463
d = 81176168860169991027846870170527607562179635470395365333547868786951080991411

key = rsa.PrivateKey(n,e,d,q,p)

with open("E:\\flag.enc", "rb") as f:
    f = f.read()
print(rsa.decrypt(f, key))
```

## 20 rome

## 20 rome

IDA - rome.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa16400.34365\tmp\rome.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Function name

- mainCRTStartup
- WinMainCRTStartup
- atexit
- onexit
- \_\_gcc\_register\_frame
- \_\_gcc\_deregister\_frame
- func
- main
- \_\_dyn\_tls\_dtor@12
- \_\_dyn\_tls\_init@12
- \_\_tlregdtor
- \_\_cpu\_features\_init
- fpreset
- \_\_report\_error
- \_\_write\_memory\_part\_0
- \_\_pei386\_runtime\_relocator
- \_\_do\_global\_dtors
- \_\_do\_global\_ctors
- \_\_main
- \_\_mingwthr\_run\_key\_dtors\_part\_0

```
60 if ( v6 == 'C' )
61 {
62     result = v7;
63     if ( v7 == 'T' )
64     {
65         result = v8;
66         if ( v8 == 'F' )
67         {
68             result = v9;
69             if ( v9 == '{' )
70             {
71                 result = v14;
72                 if ( v14 == '}' )
73                 {
74                     v1 = v10;
75                     v2 = v11;
76                     v3 = v12;
77                     v4 = v13;
78                     for ( i = 0; i <= 15; ++i )
79                     {
80                         if ( *(&v1 + i) > 64 && *(&v1 + i) <= 90 )
81                             *(&v1 + i) = (*(&v1 + i) - 51) % 26 + 65;
82                         if ( *(&v1 + i) > 96 && *(&v1 + i) <= 122 )
83                             *(&v1 + i) = (*(&v1 + i) - 79) % 26 + 97;
84                     }
85                     for ( i = 0; i <= 15; ++i )
86                     {
87                         result = *(&v15 + i);
88                         if ( *(&v1 + i) != result )
89                             return result;
90                     }
91                     result = printf("You are correct!");

```

Line 3 of 52

Graph overview

Output window

```
401A90: using guessed type int __do_global_ctors(void);
405024: using guessed type int initialized;
402008: using guessed type int p_1761;
```

Python

AU: idle Down Disk: 61GB

CSDN @weixin\_51275728

```
#include <iostream>
using namespace std;
int main(){
    int v15[16]={81,115,119,51,115,106,95,108,122,52,95,85,106,119,64,108};
    for(int i=0;i<=15;i++){
        for(int j=1;j<128;j++){
            int k=j;
            if ( j > 64 && j <= 90 )
                k = (k - 51) % 26 + 65;
            if ( j > 96 && j <= 122 )
                k = (k - 79) % 26 + 97;
            if(k==v15[i]) {
                char p=j;
                cout<<p;
                break;
            }
        }
    }
}
```

## 21 crackrtf

21 crackrtf cryptcreatehash 上网查其参数的含义

IDA - d817b3ad-28c1-443a-bbca-eda65276bce9 (1).exe E:\下载\d817b3ad-28c1-443a-bbca-eda65276bce9 (1).exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Function name

- sub\_401005
- sub\_40100A
- sub\_40100F
- main
- sub\_401019
- sub\_401040
- sub\_401230
- sub\_401420
- sub\_4014D0
- main\_0
- chkesp
- strcpy
- strcat
- atoi
- atoi64
- strlen
- scanf
- printf

```
7  DWORD pdwDataLen; // [esp+68h] [ebp-Ch]
8  HCRYPTHASH phHash; // [esp+6Ch] [ebp-8h]
9  HCRYPTPROV phProv; // [esp+70h] [ebp-4h]
10
11 if ( !CryptAcquireContextA(&phProv, 0, 0, 1u, 0xF0000000) )
12     return 0;
13 if ( CryptCreateHash(phProv, 0x8004u, 0, 0, &phHash) )
14 {
15     CryptHashData(phHash, pbData, dwDataLen, 0)
16     {
17         CryptGetHashParam(phHash, 2u, v6, &pdwDataLen, 0);
18         *lpString1 = 0;
19         for ( i = 0; i < pdwDataLen; ++i )
20         {
21             wsprintfA(&String2, "%02X", v6[i]);
22             lstrcatA(lpString1, &String2);
23         }
24         CryptDestroyHash(phHash);

```

```

25     CryptReleaseContext(phProv, 0);
26     result = 1;
27 }
28 else
29 {
30     CryptDestroyHash(phHash);
31     CryptReleaseContext(phProv, 0);
32     result = 0;
33 }
34 }
35 else
36 {
37     CryptReleaseContext(phProv, 0);
38     result = 0;

```

Output window  
Function argument information has been propagated  
The initial autoanalysis has been finished.  
401230: using guessed type BYTE var\_20[20];

Python  
AU: idle Down Disk: 191GB  
IDA - d817b3ad-28c1-443a-bbca-eda65276bce9 (1).exe E:\下载\d817b3ad-28c1-443a-bbca-eda65276bce9 (1).exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

```

1  int __cdecl sub_401040(BYTE *pbData, DWORD dwDataLen, LPSTR lpString1)
2  {
3      int result; // eax
4      DWORD i; // [esp+4Ch] [ebp-24h]
5      CHAR String2; // [esp+50h] [ebp-20h]
6      BYTE v6[16]; // [esp+54h] [ebp-1Ch]
7      DWORD pdwDataLen; // [esp+64h] [ebp-Ch]
8      HCRYPTHASH phHash; // [esp+68h] [ebp-8h]
9      HCRYPTPROV phProv; // [esp+6Ch] [ebp-4h]
10
11     if ( !CryptAcquireContextA(&phProv, 0, 0, 1u, 0xF000000) )
12         return 0;
13     if ( CryptCreateHash(phProv, 0x8003u, 0, 0, &phHash) )
14     {
15         if ( CryptHashData(phHash, pbData, dwDataLen, 0) )
16         {
17             CryptGetHashParam(phHash, 2u, v6, &pdwDataLen, 0);
18             *lpString1 = 0;
19             for ( i = 0; i < pdwDataLen; ++i )
20             {
21                 wsprintfA(&String2, "%02X", v6[i]);
22                 lstrcatA(lpString1, &String2);
23             }
24             CryptDestroyHash(phHash);
25             CryptReleaseContext(phProv, 0);
26             result = 1;
27         }
28     }
29     else
30     {
31         CryptDestroyHash(phHash);
32         CryptReleaseContext(phProv, 0);
33         result = 0;

```

Output window  
The initial autoanalysis has been finished.  
401230: using guessed type BYTE var\_20[20];  
401040: using guessed type BYTE var\_1C[16];

Python  
AU: idle Down Disk: 191GB  
BUUCTF在线评测 x buu rome\_百度搜索 x (2条消息) [buu]re-rome\_x x cryptcreatehash\_百度搜索 x ALG\_ID (Wincrypt.h) - Win x

https://docs.microsoft.com/en-us/windows/win32/seccrypto/alg-id

- Filter by title
- Cryptography
    - About Cryptography
    - Using Cryptography
    - Cryptography Reference
      - Cryptography Reference
      - Cryptography Constants
      - Cryptography Data Types
        - ALG\_ID
        - HCERT\_SERVER\_OCSP\_RESPONSE
        - HCRYPTHASH
        - HCRYPTKEY
        - HCRYPTOIDFUNCADDR
        - HCRYPTOIDFUNCSET
        - HCRYPTPROV\_LEGACY
        - HCRYPTPROV\_OR\_NCRYPT\_KEY\_HANDLE
        - HCRYPTPROV
        - KEYSVCC\_HANDLE

ALG_ID	Value	Description
CALG_SCHANNEL_MAC_KEY	0x00004c03	Used by the Schannel.dll operations system. This ALG_ID should not be used by applications.
CALG_SCHANNEL_MASTER_HASH	0x00004c02	Used by the Schannel.dll operations system. This ALG_ID should not be used by applications.
CALG_SEAL	0x00006802	SEAL encryption algorithm. This algorithm is not supported.
CALG_SHA	0x00008004	SHA hashing algorithm. This algorithm is supported by the Microsoft Base Cryptographic Provider.
CALG_SHA1	0x00008004	Same as CALG_SHA. This algorithm is supported by the Microsoft Base Cryptographic Provider.
CALG_SHA_256	0x0000800c	256 bit SHA hashing algorithm. This algorithm is supported by Microsoft Enhanced RSA and AES Cryptographic Provider. Windows XP with SP3: This algorithm is supported by the Microsoft Enhanced RSA and

In this article  
[Requirements](#)  
[See also](#)

Download PDF Retiring

这个代码在网上找的，有点问题

```
import hashlib
flags = "@DBApp"
h2=""
for i in range(100000,999999):
    h2 = hashlib.sha1((str(i)+flags).encode())
    flags = h2.hexdigest()
    if "6e32d0943418c2c33385bc35a1470250dd8923a9" == flags:
        print (str(i)+flags)
        print (i)
```

也可以在网上找sha1破解

就算不行也没关系的，看，直接就出两步的结果

输入让你无语的MD5

27019e688a4e62a649fd99cadaafb4e 解密

md5

~!3a@0123321@DBApp

© 2012-2019 SOMD5 All Rights Reserved. [提交明文](#) | [浏览器插件](#) | [免费批量解密](#) | [字典下载](#) | [豫ICP备17029147号-1](#)  
CSDN @weixin\_51275728

有个AAA文件，并且要进行异或操作，但不知道怎么异或

但是一看自己目录，有rtf文件了，打开就有flag，感情是白忙了一小时！淦！看别人writeup  
这里是文件前五个字符与头部指针{\rtf异或，答案与第二个字符串相同。

22 easyre

# 22 easyre base64 10次 发现被坑了

The screenshot shows the IDA Pro interface with the assembly window open to sub\_4406E0. The code is as follows:

```
sub_4406E0(0LL, (__int64)&v56);
v57 = 0;
v1 = &v56;
LODWORD(v5) = sub_424BA0((const __m128i *)&v56);
if ( v5 == 39 )
{
    v6 = sub_400E44((__int64)&v56);
    v7 = sub_400E44(v6);
    v8 = sub_400E44(v7);
    v9 = sub_400E44(v8);
    v10 = sub_400E44(v9);
    v11 = sub_400E44(v10);
    v12 = sub_400E44(v11);
    v13 = sub_400E44(v12);
    v14 = sub_400E44(v13);
    v15 = sub_400E44(v14);
    v0 = off_6CC090;
    v1 = (char *)v15;
    if ( !(unsigned int)sub_400360(v1) )
    {
        sub_410CC0("You found me!!!");
        v1 = "bye bye~";
        sub_410CC0("bye bye~");
    }
    result = 0LL;
}
else
{
    result = 4294967293LL;
}
```

A Base64 decoder window titled "加密解密小玩具 Ver0.2 by Lucky\_789" is open. It shows the input string "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/" and the decoded output "https://bbs.pediy.com/thread-254172.htm".

The screenshot shows a forum post on CSDN. The post title is "[原创]看雪CTF从入门到存活 (六) 主动防御". The author is "看场雪" with 3 likes. The post content discusses active defense in CTF, mentioning that while most people focus on passive measures like seatbelts and airbags, active measures like steering and braking are also important. The author shares their own experience of participating in KCTF and emphasizes the importance of systematic active defense techniques.

**看雪论坛 > CTF对抗**

**[原创]看雪CTF从入门到存活 (六) 主动防御**

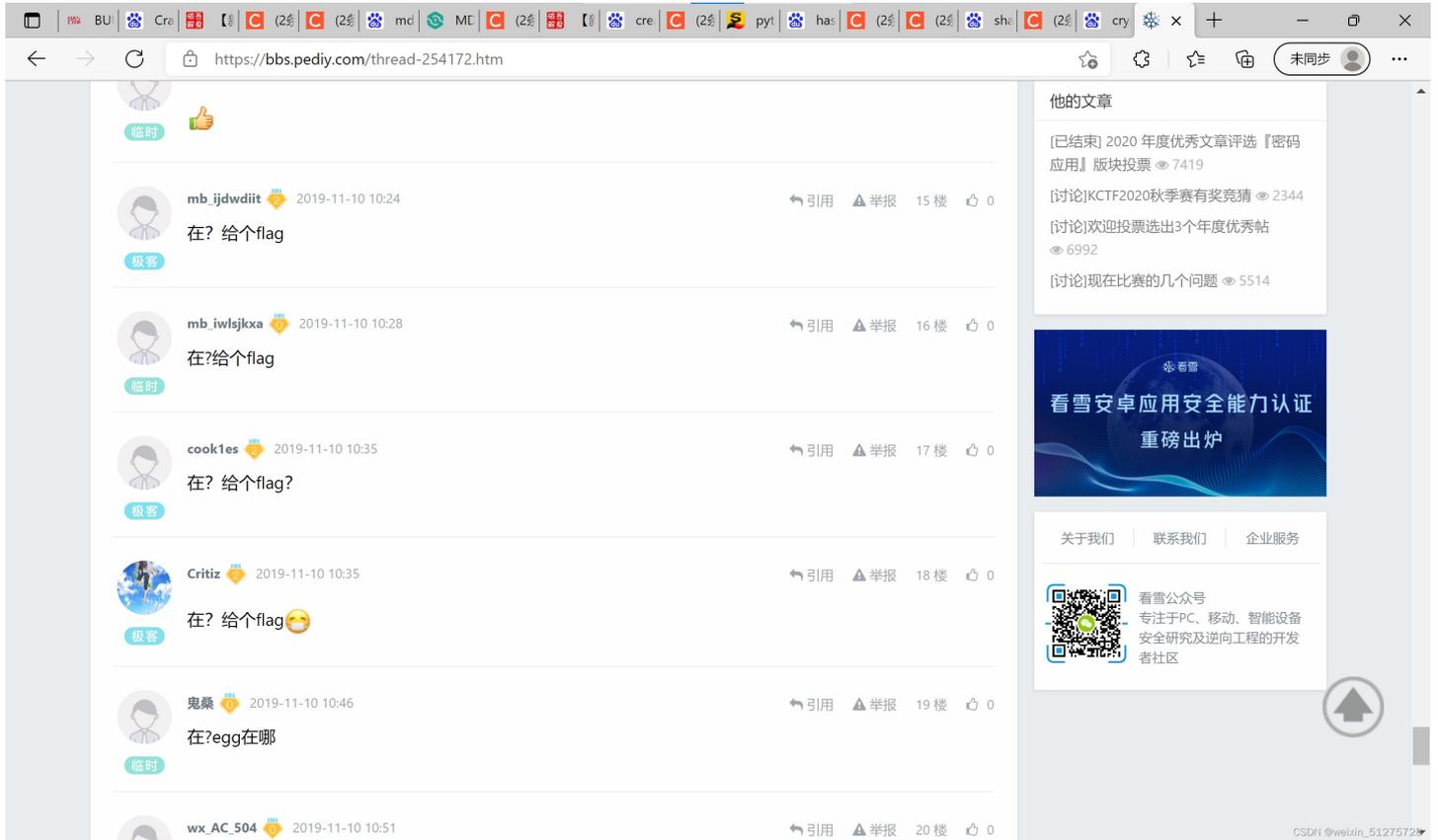
2019-8-28 18:15 21687

汽车是现代生活的常用用品  
为了安全 汽车设计者会在汽车上装备安全带和安全气囊 有些高级的汽车还有溃缩式车架设计 其目的都是为了防止发生设计者不愿意看到的结果: 车内的人员受伤  
然而 在大多数时候 保障汽车及车内人员安全的 并不是安全带和气囊 而是刹车和方向盘  
在这个领域 安全带和气囊 被称为被动安全措施 刹车被称为主动安全措施  
显然 主动安全措施是常用部件 而被动安全措施是不得已的最后防线

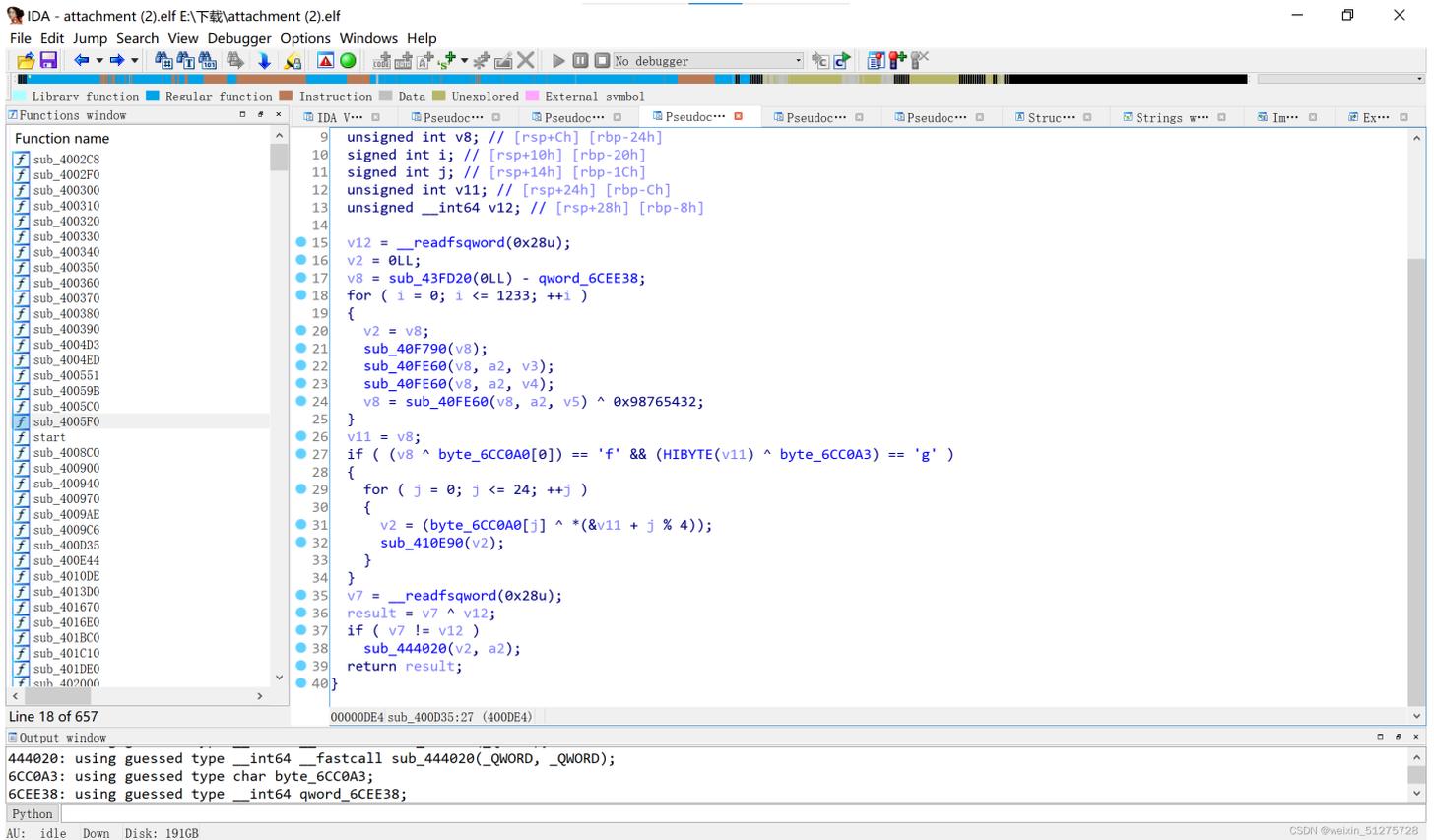
在设计KCTF的防守作品时 防守方都会在攻击方寻找正确答案的路上 设置各种障碍 以防止发生防守方不愿意看到的结果: 被破解  
这是被动防御  
其实也可以使用主动防御 其思路是: 防止攻击方走向正确答案的方向  
此次出题 笔者想研究尝试一下 系统化地使用主动防御技术

什么是主动防御呢?  
举个栗子  
笔者多次参加KCTF 从来没有胜出过  
Q老师说 要想作品存活 cfer是个巨大的威胁 最好的办法是: 趁比赛那2天拖他出去吃喝玩乐 不让他碰电脑 这样存活的

一般你做题得到看到这篇帖子的网址时候，你就被坑了，你看那清一色的评论



下面也什么都没有了，看fini\_array，指向三个函数，第二个有价值。



```

#include < iostream>
using namespace std;
int main(){
int v17[]={73,111,100,108,62,81,110,98,40,111,99,121,127,121,46,105,127,100,96,51,119,125,119,101,107,57,123,105
,121,61,126,121,76,64,69,67};
for(int i=0;i<=35;i++)
{v17[i]^=i;
char p=v17[i];
cout<<p;
}
cout<<endl;
unsigned char ida_chars[] =
{
0x40, 0x35, 0x20, 0x56, 0x5D, 0x18, 0x22, 0x45, 0x17, 0x2F,
0x24, 0x6E, 0x62, 0x3C, 0x27, 0x54, 0x48, 0x6C, 0x24, 0x6E,
0x72, 0x3C, 0x32, 0x45, 0x5B
}; string f="flag";
for(int i=0;i<4;i++){
f[i]^=ida_chars[i];
}
for(int i=0;i<25;i++){
ida_chars[i]^=f[i%4];
cout<<ida_chars[i];
}
}

```

## 23 login

23 login 感觉是web题，结果是披着web外套的re

```

1 <!DOCTYPE html />
2 <html>
3 <head>
4 <title>FLARE On 2017</title>
5 </head>
6 <body>
7 <input type="text" name="flag" id="flag" value="Enter the flag" />
8 <input type="button" id="prompt" value="Click to check the flag" />
9 <script type="text/javascript">
10 document.getElementById("prompt").onclick = function () {
11     var flag = document.getElementById("flag").value;
12     var rotFlag = flag.replace(/[a-zA-Z]/g, function(c) {return String.fromCharCode((c <= "Z" ? 90 : 122) >= (c = c.charCodeAt(0) + 13) ? c : c - 26)});
13     if ("PyvragFvqrYbtvafNerRnfl@syner-ba.pbz" == rotFlag) {
14         alert("Correct flag!");
15     } else {
16         alert("Incorrect flag, rot again");
17     }
18 }
19 </script>
20 </body>
21 </html>
22

```

```

#include < iostream>
using namespace std;
int main(){
    string p="PyvragFvqrYbtvafNerRnfl@syner-ba.pbz";
    for(int i=0;i<p.length();i++){
        if(p[i]>='a'&&p[i]<='z'){
            if(p[i]-13<97)
                p[i]+=13;
            else p[i]-=13;
        }
        else if(p[i]>='A'&&p[i]<='Z'){
            if(p[i]-13<65)
                p[i]+=13;
            else p[i]-=13;
        }
        cout<<p[i]; }
}

```

## 24 re

24 re 在kali虚拟机中脱壳，upx-d 文件名 然后进ida(不知道怎么把虚拟机中的文件传到电脑上，就在虚拟机上用qq小号以邮箱途径发给大号，正确用法是用ubuntu，但有点复杂，不想搞)

解密

IDA - re E:\下载\re

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- sub\_4004D3
- sub\_4004ED
- sub\_400551
- sub\_40059B
- sub\_4005C0
- sub\_4005F0
- start
- sub\_4008C0
- sub\_400900
- sub\_400940
- sub\_400970
- sub\_4009AE
- sub\_400E28
- sub\_400ED0
- sub\_401170
- sub\_4011E0
- sub\_4016C0
- sub\_401710
- sub\_4018E0
- sub\_401B00
- sub\_401B70
- sub\_401B80
- sub\_401C10
- sub\_401C50
- sub\_401D90
- sub\_401DD0
- sub\_401DE0
- sub\_401E60
- sub\_4025A0
- sub\_4031C0
- sub\_403B20
- sub\_403D90
- sub\_4052F0
- sub\_405770
- sub\_405930

Line 19 of 642

```

1  BOOL8 __fastcall sub_4009AE(char *a1)
2 {
3     if ( 1629056 * a1 != 166163712 )
4         return 0LL;
5     if ( 6771600 * a1[1] != 731332800 )
6         return 0LL;
7     if ( 3682944 * a1[2] != 357245568 )
8         return 0LL;
9     if ( 10431000 * a1[3] != 1074393000 )
10        return 0LL;
11    if ( 3977328 * a1[4] != 489211344 )
12        return 0LL;
13    if ( 5138336 * a1[5] != 518971936 )
14        return 0LL;
15    if ( 7532250 * a1[7] != 406741500 )
16        return 0LL;
17    if ( 5551632 * a1[8] != 294236496 )
18        return 0LL;
19    if ( 3409728 * a1[9] != 177305856 )
20        return 0LL;
21    if ( 13013670 * a1[10] != 650683500 )
22        return 0LL;
23    if ( 6088797 * a1[11] != 298351053 )
24        return 0LL;
25    if ( 7884663 * a1[12] != 386348487 )
26        return 0LL;
27    if ( 8944053 * a1[13] != 438258597 )
28        return 0LL;
29    if ( 5198490 * a1[14] != 249527520 )
30        return 0LL;
31    if ( 4544518 * a1[15] != 445362764 )
32        return 0LL;

```

Output window

```

40FA80: using guessed type __int64 __fastcall sub_40FA80(char);
410350: using guessed type __int64 __fastcall sub_410350(_QWORD);
443550: using guessed type __int64 __fastcall sub_443550(_QWORD, _QWORD, _QWORD);

```

Python

AU: idle Down Disk: 189GB

CSDN @weixin\_51275728

```

#include < iostream>
using namespace std;
int main(){
char a1[32];
a1[0] = 166163712/ 1629056 ;
    a1[1] = 731332800 / 6771600;
    a1[2] = 357245568 / 3682944 ;
    a1[3] = 1074393000/ 10431000 ;
a1[4] = 489211344/3977328 ;
    a1[5] = 518971936/5138336 ;
    a1[6]='0';
a1[7] = 406741500/7532250 ;
    a1[8] = 294236496/ 5551632 ;
a1[9] = 177305856/ 3409728 ;
    a1[10] = 650683500/ 13013670 ;
    a1[11] = 298351053 / 6088797 ;
a1[12] = 386348487 /7884663;
    a1[13] = 438258597/8944053 ;
    a1[14] = 249527520/5198490 ;
    a1[15] = 445362764 / 4544518;
a1[17] = 174988800/3645600 ;
a1[16] = 981182160 /10115280 ;
    a1[18] = 493042704 / 9667504;
    a1[19] = 257493600/5364450 ;
    a1[20] = 767478780/13464540 ;
a1[21] = 312840624/5488432 ;
    a1[22] = 1404511500/14479500 ;
    a1[23] = 316139670/ 6451830 ;
a1[24] = 619005024/6252576 ;
    a1[25] = 372641472/7763364 ;
a1[26] = 373693320/7327320 ;
a1[27] = 498266640 / 8741520;
    a1[28] = 452465676/8871876 ;
    a1[29] = 208422720/ 4086720 ;
a1[30] = 515592000/9374400 ;
    a1[31] = 719890500/5759124 ;
    cout<<a1;
} //a1[6] 不知道， 爆破的。

```

## 25 signin

## 25signin,rsa

IDA - signin C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa22492.48372\signin

File Edit Jump Search View Debugger Options Windows Help

```
1  __int64 __fastcall main(__int64 a1, char **a2, char **a3)
2  {
3      char v4; // [rsp+0h] [rbp-4A0h]
4      char v5; // [rsp+10h] [rbp-490h]
5      char v6; // [rsp+20h] [rbp-480h]
6      char v7; // [rsp+30h] [rbp-470h]
7      char v8; // [rsp+40h] [rbp-460h]
8      char v9; // [rsp+B0h] [rbp-3F0h]
9      unsigned __int64 v10; // [rsp+498h] [rbp-8h]
10
11     v10 = __readfsqword(0x28u);
12     puts("[signin]");
13     printf("[input your flag]: ", a2);
14     __isoc99_scanf("%99s", &v8);
15     sub_96A(&v8, &v9);
16     __gmpz_init_set_str(&v7, "ad939ff59f6e70bcbfad406f2494993757eee98b91bc244184a377520d06fc35", 16LL);
17     __gmpz_init_set_str(&v6, &v9, 16LL);
18     __gmpz_init_set_str(&v4, "103461035900816914121390101299049044413950405173712170434161686539878160984549", 10LL);
19     __gmpz_init_set_str(&v5, "65537", 10LL);
20     __gmpz_powm(&v6, &v6, &v5, &v7);
21     if ( (unsigned int) __gmpz_cmp_si(v6, 1) < 0 )
22     {
23         puts("GG!");
24     }
25     else
26     {
27         puts("TTTTTTTTTq!");
28     }
29     return 0LL;
30 }
```

fact: no tune info: using qs/gnfs crossover of 95 digits  
rho: primes less than 10000  
rho: 1000000 iterations  
rho: x^2 + 3, starting 1000 iterations on C78  
rho: x^2 + 2, starting 1000 iterations on C78  
rho: x^2 + 1, starting 1000 iterations on C78  
rho: starting B1 = 150K, B2 = gmp-ecm default on C78  
ecm: 30/30 curves on C78, B1=2K, B2=gmp-ecm default  
ecm: 74/74 curves on C78, B1=11K, B2=gmp-ecm default  
ecm: 161/161 curves on C78, B1=50K, B2=gmp-ecm default. ETA: 0 sec

starting SIQS on c78: 103461035900816914121390101299049044413950405173712170434161686539878160984549  
==== sieving in progress (1 thread): 36224 relations needed ====  
==== Press ctrl-c to abort and save state ====  
36372 rels found: 18856 full + 17516 from 187409 partial. (2507.94 rels/sec)  
SIQS elapsed time = 83.4113 seconds.  
Total factoring time = 98.2746 seconds

00000AD1:main:18 (AD1)

830: using guessed type \_\_int64 \_\_fastcall \_\_gmpz\_init\_set\_str(\_QWORD, \_QWORD, \_QWORD);  
840: using guessed type \_\_int64 \_\_fastcall \_\_isoc99\_scanf(\_QWORD, \_QWORD);  
96A: using guessed type \_\_int64 \_\_fastcall sub\_96A(\_QWORD, \_QWORD);

Python  
AU: idle Down Disk: 61GB

借网上的代码。。。当时不会安gmpy2的库，方法可见

安装anгр库时遇到的问题及解决方法[https://blog.csdn.net/weixin\\_51275728/article/details/122137833?](https://blog.csdn.net/weixin_51275728/article/details/122137833?spm=1001.2014.3001.5501)

spm=1001.2014.3001.5501

```
import gmpy2
```

```
import binascii
```

```
p = 282164587459512124844245113950593348271
```

```
q = 366669102002966856876605669837014229419
```

```
e = 65537
```

```
c = 0xad939ff59f6e70bcbfad406f2494993757eee98b91bc244184a377520d06fc35
```

```
n = 103461035900816914121390101299049044413950405173712170434161686539878160984549
```

```
d = gmpy2.invert(e, (p-1) * (q-1))
```

```
//48FFDA96436D1CC92E4415DE8C4D14FA4B6FD5D36D94B390D2308ADC1234CCCFBE38B158D8087
```

```
m = gmpy2.powmod(c, d, n)
```

```
print(binascii.unhexlify(hex(m)[2:]).decode(encoding="utf-8"))
```

## 26 level1

## 26level1

IDA - level1 C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa17752.48353\level1\level1

File Edit Jump Search View Debugger Options Windows Help

The screenshot shows the IDA Pro interface with the main function of a program. The function signature is `int __cdecl main(int argc, const char **argv, const char **envp)`. The code includes a loop that reads a file named 'flag' and prints its contents. The output window shows a warning: `dummy_hexrays:warn (Generate pseudocode)` and `Executing last-registered action: hx:GenPseudo (Generate pseudocode)`. The status bar indicates the current address is `000006F5 main:15 (4006F5)`.

```
#include <iostream>
using namespace std;
int main(){
long long int a[20]={0,198,232,816,200,1536,300,6144,984,51200,570,92160,1200,565248,756,1474560,800,6291456,178
2,65536000};
for(int i=1;i<20;i++)
{if(i&1)
a[i]=a[i]>>i;
else a[i]/=i;
}
for(int i=0;i<20;i++){
char p=a[i];
cout<<p;}
}
```

## 27 youghterdriver

27youghterdriver 有壳，脱壳，还是说一下，脱壳不一定要脱的很好，只要ida能识别其中的函数及数据就行。但我这次脱的太差了，函数都识别错了，一个反面教材。

创建了两个线程，得依次分析

IDA - Youngt-drive\_dump\_SCY.exe E:\盘瘦身搬家目录\Youngt-drive\_dump\_SCY.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- sub\_6111A9
- j\_CRT\_RTC\_INITW
- sub\_6111B8
- j\_amsq\_exit
- j\_XcptFilter
- j\_except\_handler4\_common
- sub\_6111F9
- sub\_611203
- j\_\_dilonexit
- j\_\_initterm\_e
- sub\_611221
- sub\_611226
- sub\_611460
- sub\_611790
- start
- sub\_611880
- sub\_611940
- StartAddress\_0
- sub\_611B10
- sub\_611BD0
- sub\_611C70
- Process32NextW
- Process32FirstW
- CreateToolhelp32Snapshot
- sub\_611E10
- sub\_611E30
- sub\_611E60
- strcpy
- sub\_6120A0
- sub\_612150
- sub\_6121E0
- sub\_6124E0
- sub\_6124F0
- sub\_612580
- sub\_6126F0

```
1 // write access to const memory has been detected, the output may be wrong!
2 void __stdcall sub_611B10(int a1)
3 {
4     int v1; // [esp+0h] [ebp-Cch]
5
6     while ( 1 )
7     {
8         WaitForSingleObject(0, 0xFFFFFFFF);
9         sub_61116D(&v1 == &v1);
10        Sleep(0x64u);
11        sub_61116D(&v1 == &v1);
12        dword_618008 = 28;
13        ReleaseMutex(0);
14        sub_61116D(&v1 == &v1);
15    }
16}
```

Line 57 of 108 00010F10.sub\_611B10:12 (611B10)

Output window

```
618008: using guessed type int dword_618008;
611B70: write access to const memory at 618008 has been detected
618008: using guessed type int dword_618008;
```

Python

AU: idle Down Disk: 191GB CSDN @weixin\_51275728

IDA - Youngt-drive\_dump\_SCY.exe E:\盘瘦身搬家目录\Youngt-drive\_dump\_SCY.exe

File Edit Jump Search View Debugger Options Windows Help

Library function Regular function Instruction Data Unexplored External symbol

Functions window

Function name

- sub\_6111A9
- j\_CRT\_RTC\_INITW
- sub\_6111B8
- j\_amsq\_exit
- j\_XcptFilter
- j\_except\_handler4\_common
- sub\_6111F9
- sub\_611203
- j\_\_dilonexit
- j\_\_initterm\_e
- sub\_611221
- sub\_611226
- sub\_611460
- sub\_611790
- start
- sub\_611880
- sub\_611940
- StartAddress\_0
- sub\_611B10
- sub\_611BD0
- sub\_611C70
- Process32NextW
- Process32FirstW
- CreateToolhelp32Snapshot
- sub\_611E10
- sub\_611E30
- sub\_611E60
- strcpy
- sub\_6120A0
- sub\_612150
- sub\_6121E0
- sub\_6124E0
- sub\_6124F0
- sub\_612580
- sub\_6126F0

```
1 // write access to const memory has been detected, the output may be wrong!
2 void __stdcall sub_611B10(int a1)
3 {
4     int v1; // [esp+0h] [ebp-Cch]
5
6     while ( 1 )
7     {
8         WaitForSingleObject(0, 0xFFFFFFFF);
9         sub_61116D(&v1 == &v1);
10        Sleep(0x64u);
11        sub_61116D(&v1 == &v1);
12        dword_618008 = 28;
13        ReleaseMutex(0);
14        sub_61116D(&v1 == &v1);
15    }
16}
```

Line 57 of 108 00010F10.sub\_611B10:12 (611B10)

Output window

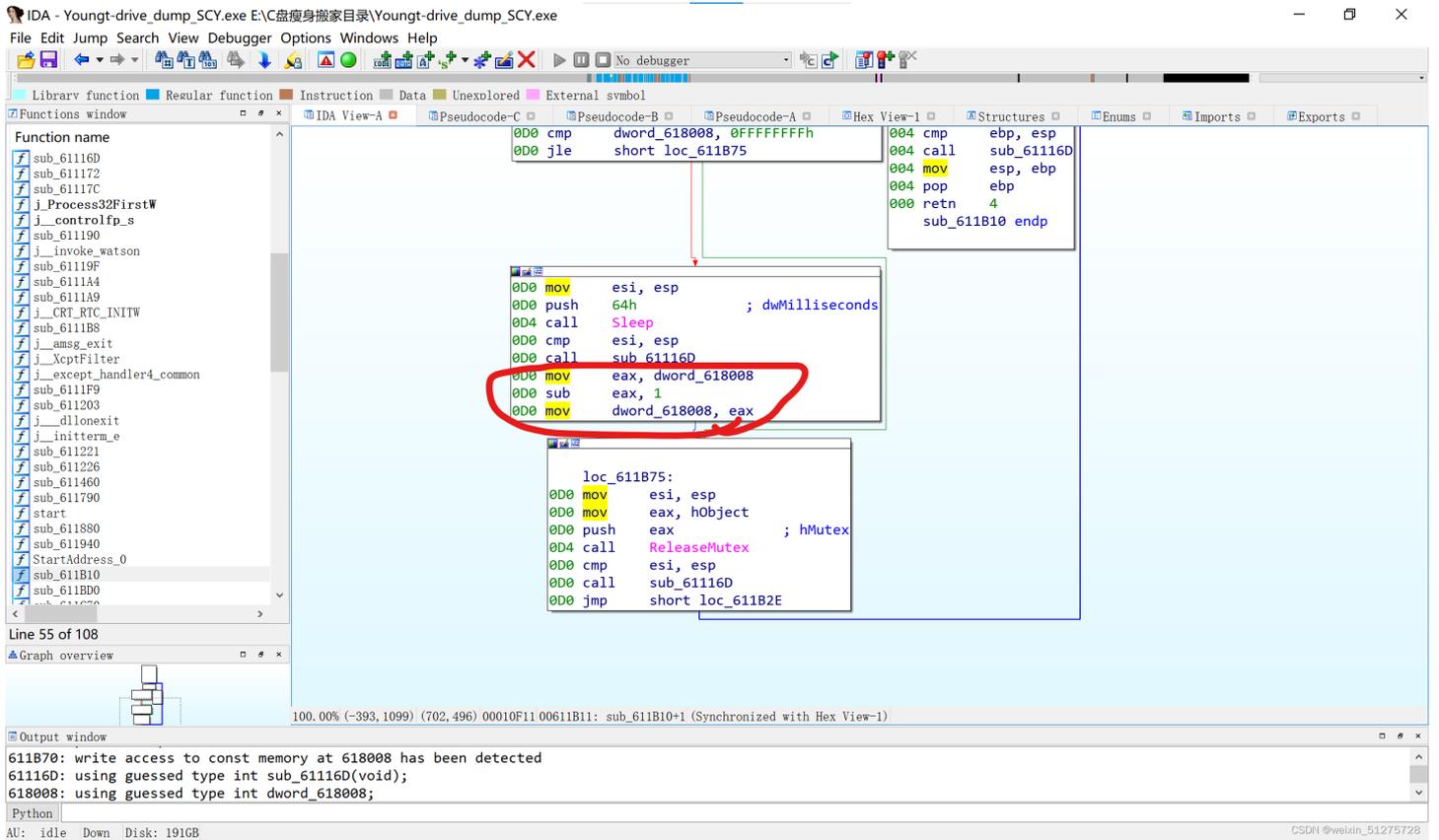
```
618008: using guessed type int dword_618008;
611B70: write access to const memory at 618008 has been detected
618008: using guessed type int dword_618008;
```

Python

AU: idle Down Disk: 191GB CSDN @weixin\_51275728

第二个感觉不对劲（1是上面的红字，2是这离谱的函数）

看汇编才知道dword\_618008 -1不是数值减一，而是指针位置往前一格。



然后就不会了，双线程??? 看别人的writeup才知道是交替进行的意思

附代码(有点问题)

```
#include <iostream>
using namespace std;
int main(){
    string str="0abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ"; //0来占个位
    string k1="TOiZiZtOrYaToUwPnToBsOaOapsyS";
    string k2="QWERTYUIOPASDFGHJKLZXCVBNMqwertyuiopasdfghjklzxcvbnm";
    for(int i=0;i<k1.length();i++){
        if(i%2==0)
            cout<<k1[i];
        else {
            for(int j=0;j<k1.length();j++){
                if(k2[j]==k1[i])
                    cout<<str[j];
            }
        }
    }
}
```

## 28 transform

## 28 transform 交换表后异或

The screenshot shows the IDA Pro interface with the following components:

- Functions window:** Lists subroutines from sub\_402FD0 to sub\_40A3F0.
- Hex View:** Displays assembly code for the selected function, including instructions like `dd 0Ah`, `align 40h`, `dd 9, 0Ah, 0Fh, 17h, 7, 18h, 0Ch, 6, 1, 10h, 3, 11h, 20h`, `dd 1Dh, 0Bh, 1Eh, 1Bh, 16h, 4, 0Dh, 13h, 14h, 15h, 2, 19h`, `dd 5, 1Fh, 8, 12h, 1Ah, 1Ch, 0Eh, 8 dup(0)`, `db 67h, 79h, 7Bh, 7Fh, 75h, 2Bh, 3Ch, 52h, 53h, 79h, 57h`, `db 5Eh, 5Dh, 42h, 7Bh, 2Dh, 2Ah, 66h, 42h, 7Eh, 4Ch, 57h`, `db 79h, 41h, 6Bh, 7Eh, 65h, 3Ch, 5Ch, 45h, 6Fh, 62h, 4Dh`, `db 3Fh dup(0)`, and `dq offset qword_40E6A8`.
- Output window:** Shows messages like `402230: using guessed type __int64 __fastcall sub_402230(_QWORD, _QWORD, _QWORD);`
- Python console:** Shows `Python` and system info `AU: idle Down Disk: 61GB`.

```
#include <iostream>
using namespace std;
int main(){
    unsigned char ida_chars[]={0x09,0x0A,0x0F,0x17,0x07,0x18,0x0C,0x06,0x01,0x10,0x03,0x11,0x20,0x1D,0x0B,0x1E,0x1B,
    ,0x16,0x04,0x0D,0x13,0x14,0x15,0x02,0x19,0x05,0x1F,0x08,0x12,0x1A,0x1C,0x0E};
    unsigned char ida_char[] =
    {0x67, 0x79, 0x7B, 0x7F, 0x75, 0x2B, 0x3C, 0x52, 0x53, 0x79,
    0x57, 0x5E, 0x5D, 0x42, 0x7B, 0x2D, 0x2A, 0x66, 0x42, 0x7E,
    0x4C, 0x57, 0x79, 0x41, 0x6B, 0x7E, 0x65, 0x3C, 0x5C, 0x45,
    0x6F, 0x62, 0x4D};
    for(int i=0;i<33;i++){
        ida_char[i]^=ida_chars[i];
    }
    for(int i=1;i<33;i++){
        for(int j=0;j<33;j++){
            if(ida_chars[j]==i)
                cout<<ida_char[j];
        }
    }
}
```

## 29 usualcrypt

## 29 usualcrypt base64 变表, 先开始我没看到变表

IDA - base.exe C:\Users\lenovo\AppData\Local\Temp\Rar\$DRa19924.21176\temp\base.exe

File Edit Jump Search View Debugger Options Windows Help

Function name: sub\_401030

```
1 int __cdecl sub_401030(const char *a1)
2 {
3     __int64 v1; // rax
4     char v2; // al
5
6     v1 = 0i64;
7     if ( strlen(a1) != 0 )
8     {
9         do
10        {
11            v2 = a1[HIDWORD(v1)];
12            if ( v2 < 97 || v2 > 122 )
13            {
14                if ( v2 < 65 || v2 > 90 )
15                    goto LABEL_9;
16                LOBYTE(v1) = v2 + 32;
17            }
18            else
19            {
20                LOBYTE(v1) = v2 - 32;
21            }
22            a1[HIDWORD(v1)] = v1;
23        LABEL_9:
24            LODWORD(v1) = 0;
25            ++HIDWORD(v1);
26        }
27        while ( HIDWORD(v1) < strlen(a1) );
28    }
29    return v1;
30 }
```

Output window:

```
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
```

```
#include <iostream>
using namespace std;
int main(){
    int i=6;
    char v1;
    string a="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/" ;
    do{v1=a[10+i];
    a[10+i]=a[i];
    a[i]=v1;
    i++;
}while(i<15);
cout<<a;
}
```

然后我发现不行，仔细看函数，发现还有大小写转换。

The screenshot shows the IDA Pro interface with the assembly code for sub\_401030. The code is as follows:

```
1 int __cdecl sub_401030(const char *a1)
2 {
3     int64 v1; // rax
4     char v2; // al
5
6     v1 = 0i64;
7     if ( strlen(a1) != 0 )
8     {
9         do
10        {
11            v2 = a1[HIDWORD(v1)];
12            if ( v2 < 97 || v2 > 122 )
13            {
14                if ( v2 < 65 || v2 > 90 )
15                    goto LABEL_9;
16                LOBYTE(v1) = v2 + 32;
17            }
18            else
19            {
20                LOBYTE(v1) = v2 - 32;
21            }
22            a1[HIDWORD(v1)] = v1;
23        } LABEL_9:
24        LODWORD(v1) = 0;
25        ++HIDWORD(v1);
26    } while ( HIDWORD(v1) < strlen(a1) );
27    return v1;
28 }
29
30
```

Below the assembly code, the output window shows the following instructions:

```
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
401030: using guessed type _DWORD __cdecl sub_401030(_DWORD);
```

On the right side, there is a Base64 decoder tool titled "加密解密小玩具 Ver0.2 by Lucky\_789". The tool has a "字串(T)" field containing "ABCDEFQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/" and a "明文(M)" field containing "flag{base64\_h2s\_a\_surprise}". The "密文(C)" field contains "ZmxhZ3tiGmXkXjHfaDTzNEFfk3LyeRTpc2L9". The tool has buttons for "加密", "解密", and "清空". The "明文选项:" are "Ascii串", "Unicode串", and "Hex块". The current position is "Base64".

## 30 level2

30level2 upx脱壳 明码

## 31 相册

31 相册 base64

The screenshot shows the Java Decompiler interface for the C2.class file. The decompiled Java code is as follows:

```
package cn.baidujiaoyuan.ver5304;

import android.content.Context;
import android.content.SharedPreferences;
import com.net.cn.NativeMethod;
import it.saurosoftware.base64.Base64;
import java.text.ParsePosition;
import java.text.SimpleDateFormat;
import java.util.Date;

public class C2
{
    public static final String CANCELNUMBER = "X23X2321X23";
    public static final String MAILFROM = Base64.decode(NativeMethod.m());
    public static final String MAILHOST = "smtp.163.com";
    public static final String MAILPASS;
    public static final String MAILSERVER;
    public static final String MAILUSER;
    public static final String MOVENUMBER = "***21*121X23";
    public static final String PORT = "25";
    public static final String date = "2115-11-1";
    public static final String phoneNumber = Base64.decode(NativeMethod.p());

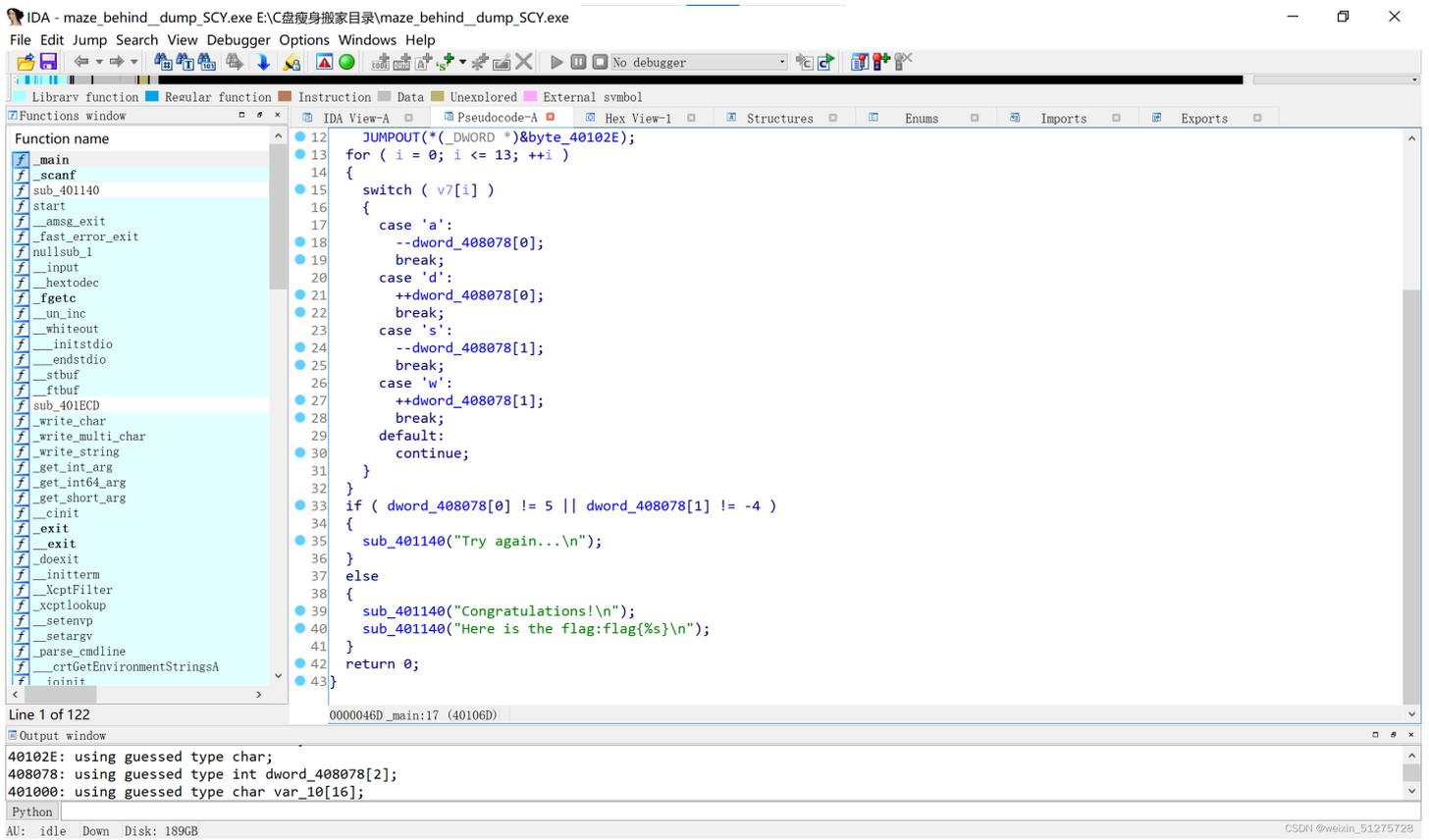
    static
    {
        System.loadLibrary("core");
        MAILSERVER = Base64.decode(NativeMethod.m());
        MAILUSER = Base64.decode(NativeMethod.m());
        MAILPASS = Base64.decode(NativeMethod.pwd());
    }

    public static boolean isFilter(context paramContext)
    {
        paramContext = strToDateLong("2115-11-1");
        Date localDate = new Date();
        if (paramContext.getTime() - localDate.getTime() < 0L) {}
        for (boolean bool c true; bool = false) {}
        return bool;
    }

    public static boolean isServerFilter(Context paramContext)
    {
        boolean bool = false;
        if (paramContext.getSharedPreferences("X", 0).getString("m", "1").equals("1")) {}
        bool = true;
        return bool;
    }

    public static Date strToDateLong(String paramString)
    {
        return new SimpleDateFormat("yyyy-MM-dd").parse(paramString, new ParsePosition(0));
    }
}
```





70个字符7\*10 不行，10\*7可以

它还有花指令，对 `call near ptr 0ecb5d7800h`先按d 再把除d8e8h的部分按c 去除花指令。按p, 按f5即可