

随风而逝的白色相簿

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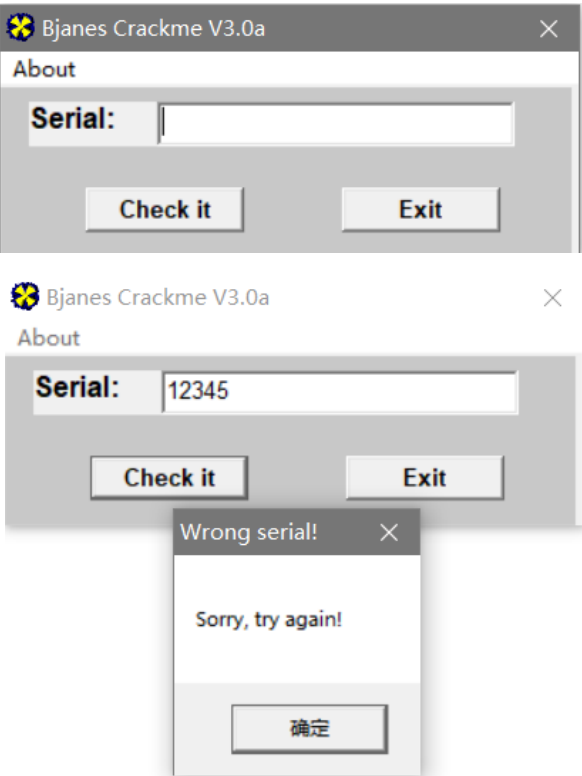
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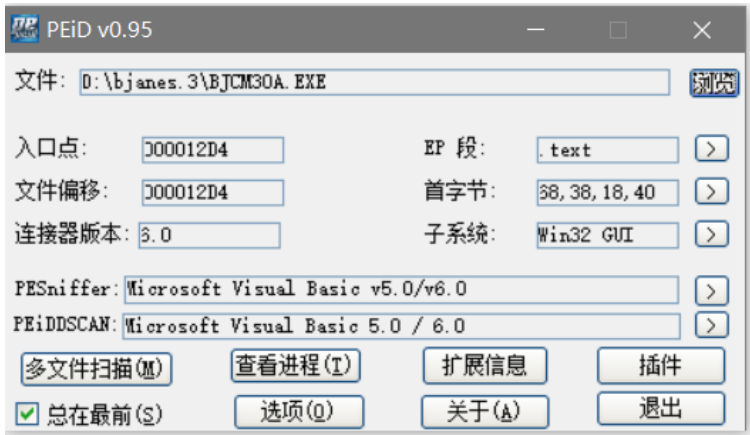
Crackme017

Crackme017 的逆向分析

1.程序观察



2.简单查壳



使用 VB5 编写的，没有壳。

公告

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阅读排行榜

1. PHP一句话木马(6692)
0 Crackme007(7)

评论排行榜

3.程序分析

使用 OD 载入程序，搜索字符串，点击跟进代码

```
0040415F mov edx,BJCM30A.0040290C =
00404E11 mov dword ptr ss:[ebp-0xF0],BJCM30A.004 FFFF
00404E6A mov dword ptr ss:[ebp-0x100],BJCM30A.00 Correct serial!
00404E88 mov dword ptr ss:[ebp-0xF0],BJCM30A.004 Good job, tell me how you do that!
00404F17 mov dword ptr ss:[ebp-0x100],BJCM30A.00 Wrong serial!
00404F35 mov dword ptr ss:[ebp-0xF0],BJCM30A.004 Sorry, try again!
```

```
00404E08 . 8055 CC lea edx,dword ptr ss:[ebp-0x34]
00404E0B . 8085 08FFFFFF lea eax,dword ptr ss:[ebp-0xF8]
00404E11 . C785 10FFFFFF mov dword ptr ss:[ebp-0xF0],BJCM30A.00402B58
00404E1B . 52 push edx
00404E1C . 50 push eax
00404E1D . C785 08FFFFFF mov dword ptr ss:[ebp-0xF8],0x8008
00404E27 . FF15 6C104000 call dword ptr ds:[<&MSUBUM60.__vbaVarTstEq>]
00404E2D . 66:85C0 test ax,ax
00404E30 . 0F84 AD000000 jz BJCM30A.00404EE3
00404E36 . 8B1D CC104000 mov ebx,dword ptr ds:[<&MSUBUM60.__vbaVarDup>]
00404E3C . B9 04000280 mov ecx,0x80020004
00404E41 . 89D0 20FFFFFF mov dword ptr ss:[ebp-0xE0],ecx
00404E47 . B8 0A000000 mov eax,0xA
00404E4C . 89D0 30FFFFFF mov dword ptr ss:[ebp-0xD0],ecx
00404E52 . 8095 F8FFFFFF lea edx,dword ptr ss:[ebp-0x108]
00404E58 . 8080 30FFFFFF lea ecx,dword ptr ss:[ebp-0xC8]
00404E5E . 8985 18FFFFFF mov dword ptr ss:[ebp-0xE8],eax
00404E64 . 8985 28FFFFFF mov dword ptr ss:[ebp-0xB8],eax
00404E6A . C785 08FFFFFF mov dword ptr ss:[ebp-0x100],BJCM30A.00402B84 Correct serial!
00404E74 . 89D5 F8FFFFFF mov dword ptr ss:[ebp-0x108],esi
00404E7A . FF03 call ebx
00404E7C . 8095 08FFFFFF lea edx,dword ptr ss:[ebp-0xF8]
00404E82 . 8080 40FFFFFF lea ecx,dword ptr ss:[ebp-0xB8]
00404E88 . C785 10FFFFFF mov dword ptr ss:[ebp-0xF0],BJCM30A.00402B68 Good job, tell me how you do that!
00404E92 . 8985 08FFFFFF mov dword ptr ss:[ebp-0xF8],esi
00404E98 . FF03 call ebx
```

可以看到不远处就有一个比较语句，下断点，运行程序，程序断在了断点处

```
00404E05 . 83C4 10 add esp,0x10
00404E08 . 8055 CC lea edx,dword ptr ss:[ebp-0x34]
00404E0B . 8085 08FFFFFF lea eax,dword ptr ss:[ebp-0xF8]
00404E11 . C785 10FFFFFF mov dword ptr ss:[ebp-0xF0],BJCM30A.00402B58
00404E1B . 52 push edx
00404E1C . 50 push eax
00404E1D . C785 08FFFFFF mov dword ptr ss:[ebp-0xF8],0x8008
00404E27 . FF15 6C104000 call dword ptr ds:[<&MSUBUM60.__vbaVarTstEq>]
00404E2D . 66:85C0 test ax,ax
00404E30 . 0F84 AD000000 jz BJCM30A.00404EE3
00404E36 . 8B1D CC104000 mov ebx,dword ptr ds:[<&MSUBUM60.__vbaVarDup>]
```

修改 ZF 标志位，继续运行程序，程序提示成功



可以看出，刚才的比较处是程序的关键。

再次运行到断点处，查看函数的参数

```
0012F410 0012F518 var28 = 0012F518
0012F414 0012F5DC var18 = 0012F5DC

00402B58 46 00 46 00 46 00 46 00 00 00 00 00 44 00 00 00 F.F.F.F....D...
01A948A4 30 00 00 00 33 00 34 00 35 00 00 00 05 00 03 00 0...3.4.5...%
```

可以看到，程序有两个参数。一个参数是 0，还有一个参数是 FFFF。

继续观察代码，发现上面有一个赋值的代码

```
00404E11 . C785 10FFFFFF mov dword ptr ss:[ebp-0xF0],BJCM30A.00402B58 FFFF
```

0

推荐

```
00402B58=BJCM30A.00402B58 (UNICODE "FFFF")
堆栈 ss:[0012F520]=00000001
```

正是这行代码，将参数2的值变为了 FFFF。

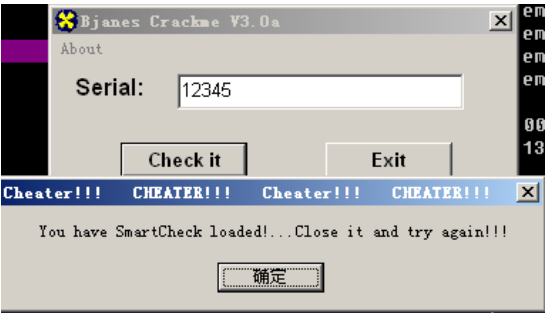
我们大胆猜测，FFFF 是正确的标志。

将参数1的值也修改为 FFFF，程序提示正确。

来到代码头部，下断点，点击 check 按钮，程序就断了下来

00404230	> 55	push ebp	检查按钮
00404231	. 8BEC	mov ebp,esp	
00404233	. 83EC 0C	sub esp,0xC	
00404236	. 68 66114000	push <jmp.&MSUBUM60.__vbaExceptionHandler>	SE 处理程序安装
00404238	. 64:A1 000000	mov eax,dword ptr fs:[0]	
00404241	. 50	push eax	
00404242	. 64:8925 0000	mov dword ptr fs:[0],esp	BJCM30A.00402007
00404249	. 81EC D00100	sub esp,0x108	
0040424F	. 53	push ebx	
00404250	. 56	push esi	
00404251	. 57	push edi	

向下调试代码，发现程序居然出现了一个新的提示



再查看上面的代码，程序先使用了循环浪费时间，然后使用循环结束的时间减去循环开始的时间，如果时间过大，就判断程序正在被调试，就会弹窗提示

00404320	. FF15 94104000	call dword ptr ds:[<&MSUBUM60.#rtcGetTimer_535>]	msubvm60.rtcGetTime
00404326	. FF15 D0104000	call dword ptr ds:[<&MSUBUM60.__vbaFpI4>]	msubvm60.__vbaFpI4
00404461	> FF15 94104000	call dword ptr ds:[<&MSUBUM60.#rtcGetTimer_535>]	msubvm60.rtcGetTime
00404467	. FF15 D0104000	call dword ptr ds:[<&MSUBUM60.__vbaFpI4>]	msubvm60.__vbaFpI4
0040446D	. 2B45 A4	sub eax,dword ptr ss:[ebp-0x5C]	减去第一次的时间
00404470	~ 0F80 340C0000	jg BJCM30A.004050AA	
00404476	. 83F8 05	cmp eax,0x5	大于 5 就不跳转
00404479	~ 0F8E AD000000	jle BJCM30A.0040452C	

然后程序进行长度检测，如果长度小于 5，就会直接提示错误

0040456D	> 8B95 7CFFFFFF	mov edx,dword ptr ss:[ebp-0x84]	
00404573	. 52	push edx	
00404574	. FF15 14104000	call dword ptr ds:[<&MSUBUM60.__vbaLenBstr>]	String = 0000002F ???
0040457A	. 330B	xor ebx,ebx	__vbaLenBstr
0040457C	. 83F8 05	cmp eax,0x5	比较长度是否小于5
0040457F	. 0F9cc3	setl bl	
00404582	. 8D8D 7CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
00404588	. F7DB	neg ebx	
0040458A	. FF15 F0104000	call dword ptr ds:[<&MSUBUM60.__vbaFreeStr>]	msubvm60.__vbaFreeStr
00404590	. 8D8D 5CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
00404596	. FF15 F4104000	call dword ptr ds:[<&MSUBUM60.__vbaFree0b>]	msubvm60.__vbaFree0b
0040459C	. 66:3BDF	cmp bx,di	长度小于5跳转
0040459F	~ 0F85 39090000	jnz BJCM30A.00404EDE	

接下来程序会根据序列号的长度建立一个循环，循环的次数为序列号的长度



00404610	-	FF15 3010400	call dword ptr ds:[<&MSUBUM60.__vbaHresultCheck0]	msvbm60.__vbaHresultCheck0bj
00404616	>	8B80 7CFFFFFF	mov ecx,dword ptr ss:[ebp-0x84]	
0040461C	-	51	push ecx	String = 00000020 ???
0040461D	-	FF15 1410400	call dword ptr ds:[<&MSUBUM60.__vbaLenBstr>]	__vbaLenBstr
00404623	-	8985 00FFFFFF	mov dword ptr ss:[ebp-0x100],eax	
00404629	-	8D95 08FFFFFF	lea edx,dword ptr ss:[ebp-0xF8]	
0040462F	-	8D85 F8FFFFFF	lea eax,dword ptr ss:[ebp-0x108]	
00404635	-	52	push edx	Step8 = 0000002F
00404636	-	8D8D E8FFFFFF	lea ecx,dword ptr ss:[ebp-0x118]	
0040463C	-	50	push eax	End8 = NULL
0040463D	-	8D95 64FFFFFF	lea edx,dword ptr ss:[ebp-0x19C]	
00404643	-	51	push ecx	Start8 = 00000020
00404644	-	8D85 74FFFFFF	lea eax,dword ptr ss:[ebp-0x18C]	
0040464A	-	52	push edx	TMPEnd8 = 0000002F
0040464B	-	8D4D 94	lea ecx,dword ptr ss:[ebp-0x6C]	
0040464E	-	50	push eax	TMPSep8 = NULL
0040464F	-	51	push ecx	Counter8 = 00000020
00404650	-	C785 F8FFFFFF	mov dword ptr ss:[ebp-0x108],0x3	
0040465A	-	C785 F0FFFFFF	mov dword ptr ss:[ebp-0x110],0x1	
00404664	-	C785 E8FFFFFF	mov dword ptr ss:[ebp-0x118],0x2	
0040466E	-	FF15 3810400	call dword ptr ds:[<&MSUBUM60.__vbaVarForInit>]	__vbaVarForInit
00404674	-	8D8D 7CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
0040467A	-	8985 30FFFFFF	mov dword ptr ss:[ebp-0x1D0],eax	
00404680	-	FF15 F010400	call dword ptr ds:[<&MSUBUM60.__vbaFreeStr>]	msvbm60.__vbaFreeStr
00404686	-	8D8D 5CFFFFFF	lea ecx,dword ptr ss:[ebp-0xA4]	
0040468C	-	FF15 F410400	call dword ptr ds:[<&MSUBUM60.__vbaFreeObj>]	msvbm60.__vbaFreeObj
00404692	-	8B1D DC10400	mov ebx,dword ptr ds:[<&MSUBUM60.__vbaStrMove>]	msvbm60.__vbaStrMove
00404698	>	39BD 30FFFFFF	cmp dword ptr ss:[ebp-0x1D0],edi	

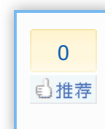
在循环中，程序依次比较每个字符是否和后一个字符是否相同

00404779	-	8B8D 7CFFFFFF	mov ecx,dword ptr ss:[ebp-0x84]	msvbm60.rtcMidCharBstr
0040477F	-	8B3D 5410400	mov edi,dword ptr ds:[<&MSUBUM60.__rtcMidCharBstr	msvbm60.rtcMidCharBstr
00404785	-	50	push eax	
00404786	-	51	push ecx	
00404787	-	FFD7	call edi	msvbm60.rtcMidCharBstr: <&MSUBUM60.__rtcMidCharBstr_63
00404789	-	8BD0	mov edx,eax	取 key[n], n 是循环的次数
0040478D	-	8D8D 74FFFFFF	lea ecx,dword ptr ss:[ebp-0x8C]	
00404791	-	FFD3	call ebx	msvbm60.__vbaStrMove
00404793	-	50	push eax	
00404794	-	8D95 28FFFFFF	lea edx,dword ptr ss:[ebp-0xD8]	
0040479A	-	8D45 94	lea eax,dword ptr ss:[ebp-0x6C]	
0040479D	-	52	push edx	
0040479E	-	8D8D F8FFFFFF	lea ecx,dword ptr ss:[ebp-0x108]	
004047A4	-	50	push eax	var18 = 00182214
004047A5	-	8D95 38FFFFFF	lea edx,dword ptr ss:[ebp-0xC8]	
004047AB	-	51	push ecx	var28 = 0012F580
004047AC	-	52	push edx	saveto8 = 00182214
004047AD	-	FF15 C810400	call dword ptr ds:[<&MSUBUM60.__vbaVarAdd>]	__vbaVarAdd
004047B3	-	50	push eax	n = n + 1
004047B4	-	FF15 C410400	call dword ptr ds:[<&MSUBUM60.__vbaI4Var>]	msvbm60.__vbaI4Var
004047BA	-	50	push eax	
004047BB	-	8D85 78FFFFFF	mov ecx,dword ptr ss:[ebp-0x88]	
004047C1	-	50	push eax	
004047C2	-	FFD7	call edi	msvbm60.rtcMidCharBstr
004047C4	-	8BD0	mov edx,eax	取下一个个字符,也就是 key[n+1]
004047C6	-	8D8D 70FFFFFF	lea ecx,dword ptr ss:[ebp-0x90]	
004047CC	-	FFD3	call ebx	msvbm60.__vbaStrMove
004047CE	-	50	push eax	
004047CF	-	FF15 6810400	call dword ptr ds:[<&MSUBUM60.__vbaStrCmp>]	msvbm60.__vbaStrCmp
004047D5	-	8BF8	mov edi,eax	比较 key[n]和key[n+1]是否相同
004047D7	-	8D8D 70FFFFFF	lea ecx,dword ptr ss:[ebp-0x90]	

如果字符和后一个字符不相同，就进入下次循环；如果相同，就会在内存 0012F558 处加1

00404838	-	66:85FF	test di,di	
0040483B	-	74 37	je short B.JCM30A.00404874	不相等跳转
0040483D	-	8D4D B8	lea ecx,dword ptr ss:[ebp-0x48]	
00404840	-	8D95 08FFFFFF	lea edx,dword ptr ss:[ebp-0xF8]	
00404846	-	51	push ecx	var18 = 00D1FC9C
00404847	-	8D85 48FFFFFF	lea eax,dword ptr ss:[ebp-0xB8]	
0040484D	-	52	push edx	var28 = NULL
0040484E	-	50	push eax	saveto8 = NULL
0040484F	-	C785 10FFFFFF	mov dword ptr ss:[ebp-0xF0],0x1	
00404859	-	C785 08FFFFFF	mov dword ptr ss:[ebp-0xF8],0x2	
00404863	-	FF15 C810400	call dword ptr ds:[<&MSUBUM60.__vbaVarAdd>]	__vbaVarAdd
00404869	-	8BD0	mov edx,eax	次数加1
0040486B	-	8D4D B8	lea ecx,dword ptr ss:[ebp-0x48]	
0040486E	-	FF15 0810400	call dword ptr ds:[<&MSUBUM60.__vbaVarMove>]	msvbm60.__vbaVarMove
00404874	>	8D8D 64FFFFFF	lea ecx,dword ptr ss:[ebp-0x19C]	
0040487A	-	8D95 74FFFFFF	lea edx,dword ptr ss:[ebp-0x18C]	
00404880	-	51	push ecx	TMPEnd8 = 00D1FC9C
00404881	-	8D45 94	lea eax,dword ptr ss:[ebp-0x6C]	
00404884	-	52	push edx	TMPSep8 = NULL
00404885	-	50	push eax	Counter8 = NULL
00404886	-	FF15 E810400	call dword ptr ds:[<&MSUBUM60.__vbaVarForNext>]	__vbaVarForNext
0040488C	-	8985 30FFFFFF	mov dword ptr ss:[ebp-0x1D0],eax	
00404892	-	33FF	xor edi,edi	
00404894	-	E9 FFFDFFFF	jmp B.JCM30A.00404698	

然后在后面和序列号长度减去1作比较，如果相同，则跳转到错误提示处



004048E4	> 8B95 7CFFFFFF	mov edx,dword ptr ss:[ebp-0x84]	
004048E8	52	push edx	
004048EB	FF15 14104000	call dword ptr ds:[<MSUBUM60.__vbaLenBstr>]	String = "12345"
004048F1	83E8 01	sub eax,0x1	__vbaLenBstr
004048F4	8D8D 08FFFFFF	lea ecx,dword ptr ss:[ebp-0xF8]	len - 1
004048FA	0F80 AA070000	jb BJC30A.004050AA	
00404900	8985 10FFFFFF	mov dword ptr ss:[ebp-0xF0],eax	
00404906	8D45 B8	lea eax,dword ptr ss:[ebp-0x48]	
00404909	50	push eax	var18 = 0012F5C8
0040490A	51	push ecx	var28 = 0012F518
0040490B	C785 08FFFFFF	mov dword ptr ss:[ebp-0xF8],0x8003	
00404915	FF15 6C104000	call dword ptr ds:[<MSUBUM60.__vbaVarTstEq>]	__vbaVarTstEq
0040491B	8D8D 7CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
00404921	66:8985 CCFE	mov word ptr ss:[ebp-0x134],ax	
00404928	FF15 F0104000	call dword ptr ds:[<MSUBUM60.__vbaFreeStr>]	msubum60.__vbaFreeStr
0040492E	8D8D 5CFFFFFF	lea ecx,dword ptr ss:[ebp-0xA4]	
00404934	FF15 F4104000	call dword ptr ds:[<MSUBUM60.__vbaFreeObj>]	msubum60.__vbaFreeObj
0040493A	66:39BD CCFE	cmp word ptr ss:[ebp-0x134],di	
00404941	0F85 97050000	jnz BJC30A.00404EDE	

也就说序列号不可以全部为同一个值，比如说都是 1。

接下来，又是一个循环

004049A6	> 8B95 7CFFFFFF	mov edx,dword ptr ss:[ebp-0x84]	
004049AC	52	push edx	
004049AD	FF15 14104000	call dword ptr ds:[<MSUBUM60.__vbaLenBstr>]	String = NULL
004049B3	8985 08FFFFFF	mov dword ptr ss:[ebp-0x100],eax	__vbaLenBstr
004049B9	8D85 08FFFFFF	lea eax,dword ptr ss:[ebp-0xF8]	
004049BF	8D8D F8FFFFFF	lea ecx,dword ptr ss:[ebp-0x108]	
004049C5	50	push eax	Step8 = NULL
004049C6	8D95 E8FFFFFF	lea edx,dword ptr ss:[ebp-0x118]	End8 = 00D1FC9C
004049CC	51	push ecx	Start8 = NULL
004049CD	8D85 44FFFFFF	lea eax,dword ptr ss:[ebp-0x1BC]	
004049D3	52	push edx	THMPend8 = NULL
004049D4	8D8D 54FFFFFF	lea ecx,dword ptr ss:[ebp-0x1AC]	
004049DA	50	push eax	THMstep8 = 00D1FC9C
004049DB	8D55 94	lea edx,dword ptr ss:[ebp-0x6C]	Counter8 = NULL
004049DE	51	push ecx	
004049DF	52	push edx	
004049E0	C785 F8FFFFFF	mov dword ptr ss:[ebp-0x108],0x3	
004049EA	C785 F0FFFFFF	mov dword ptr ss:[ebp-0x110],0x1	
004049F4	C785 E8FFFFFF	mov dword ptr ss:[ebp-0x118],0x2	
004049FE	FF15 38104000	call dword ptr ds:[<MSUBUM60.__vbaVarForInit>]	__vbaVarForInit
00404A04	8D8D 7CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
00404A0A	8985 2CFFFFFF	mov dword ptr ss:[ebp-0x1D4],eax	
00404A10	FF15 F0104000	call dword ptr ds:[<MSUBUM60.__vbaFreeStr>]	msubum60.__vbaFreeStr
00404A16	8D8D 5CFFFFFF	lea ecx,dword ptr ss:[ebp-0xA4]	
00404A1C	FF15 F4104000	call dword ptr ds:[<MSUBUM60.__vbaFreeObj>]	msubum60.__vbaFreeObj
00404A22	> 39BD 2CFFFFFF	cmp word ptr ss:[ebp-0x1D4],edi	
00404A28	0F84 1D030000	jb BJC30A.00404D4B	

程序求得序列号的长度，然后转化为字符串

00404A73	FF15 30104000	call dword ptr ds:[<MSUBUM60.__vbaResultCheck0>]	msubum60.__vbaResultCheck0b
00404A79	> 8B85 7CFFFFFF	mov eax,dword ptr ss:[ebp-0x84]	
00404A7F	50	push eax	String = "5"
00404A80	FF15 14104000	call dword ptr ds:[<MSUBUM60.__vbaLenBstr>]	__vbaLenBstr
00404A86	8D8D 48FFFFFF	lea ecx,dword ptr ss:[ebp-0xB8]	
00404A8C	8985 50FFFFFF	mov dword ptr ss:[ebp-0xB0],eax	
00404A92	51	push ecx	
00404A93	C785 48FFFFFF	mov dword ptr ss:[ebp-0xB8],0x3	
00404A9D	FF15 A8104000	call dword ptr ds:[<MSUBUM60.#rtcHexBstrFromVar>]	msubum60.rtcHexBstrFromVar
00404AA3	8BD0	mov edx,edx	转化为字符串

然后得到序列号最左边的字符，最后也转化为字符串

00404AD0	6A 01	push 0x1	
00404AD2	8D95 28FFFFFF	lea edx,dword ptr ss:[ebp-0xD8]	
00404AD8	51	push ecx	
00404AD9	52	push edx	
00404ADA	8D8D 58FFFFFF	mov dword ptr ss:[ebp-0xA8],edi	
00404AE0	8985 40FFFFFF	mov dword ptr ss:[ebp-0xC0],eax	
00404AE6	C785 38FFFFFF	mov dword ptr ss:[ebp-0xC8],0x9	
00404AF0	FF15 D4104000	call dword ptr ds:[<MSUBUM60.#rtcLeftCharVar_61>]	msubum60.rtcLeftCharVar
00404AF6	8D85 28FFFFFF	lea eax,dword ptr ss:[ebp-0xD8]	
00404AFC	8D8D 78FFFFFF	lea ecx,dword ptr ss:[ebp-0x88]	
00404B02	50	push eax	
00404B03	51	push ecx	
00404B04	FF15 90104000	call dword ptr ds:[<MSUBUM60.__vbaStrVarVal>]	__vbaStrVarVal
00404B0A	50	push eax	String = "3"
00404B0B	FF15 28104000	call dword ptr ds:[<MSUBUM60.#rtcAnsiValueBstr>]	rtcAnsiValueBstr
00404B11	8D95 18FFFFFF	lea edx,dword ptr ss:[ebp-0xE8]	
00404B17	66:8985 20FF	mov word ptr ss:[ebp-0xE0],ax	
00404B1E	52	push edx	
00404B1F	C785 18FFFFFF	mov dword ptr ss:[ebp-0xE8],0x2	
00404B29	FF15 A8104000	call dword ptr ds:[<MSUBUM60.#rtcHexBstrFromVar>]	msubum60.rtcHexBstrFromVar
00404B2F	8BD0	mov edx,edx	转化为字符串

最后调用函数，将两个数相乘，也就是将 序列号的长度和序列号第一个字符的 ASCII 值相乘



00404B72	- 8B06	mov eax,dword ptr ds:[esi]	BJCM30A.00406A74
00404B74	- 8D8D 68FFFFFF	lea ecx,dword ptr ss:[ebp-0x98]	
00404B7A	- 8D95 6CFFFFFF	lea edx,dword ptr ss:[ebp-0x94]	
00404B80	- 51	push ecx	
00404B81	- 52	push edx	
00404B82	- 8D8D 70FFFFFF	lea ecx,dword ptr ss:[ebp-0x90]	
00404B88	- 8D95 74FFFFFF	lea edx,dword ptr ss:[ebp-0x8C]	
00404B8E	- 51	push ecx	
00404B8F	- 52	push edx	相乘
00404B90	- 56	push esi	
00404B91	- FF90 F8060000	call dword ptr ds:[eax+0x6F8]	

接下里，程序依次将序列号相加

00404C9E	- FF15 C4104000	call dword ptr ds:[<&MSUBUM60.__vbaI4Var>]	msvbun60.__vbaI4Var
00404CA4	- 8B8D 7CFFFFFF	mov ecx,dword ptr ss:[ebp-0x84]	msvbun60.rtcMidCharBstr
00404CAA	- 50	push eax	
00404CAB	- 51	push ecx	
00404CAC	- FF15 54104000	call dword ptr ds:[<&MSUBUM60.rtcMidCharBstr_63	msvbun60.rtcMidCharBstr
00404CB2	- 8B8D	mov edx,eax	msvbun60.__vbaStrMove
00404CB4	- 8D8D 78FFFFFF	lea ecx,dword ptr ss:[ebp-0x88]	
00404CBA	- FFD3	call ebx	
00404CBC	- 50	push eax	String = ""
00404CBD	- FF15 28104000	call dword ptr ds:[<&MSUBUM60.rtcAnsiValueBstr_	rtcAnsiValueBstr
00404CC3	- 66:8985 00FF	mov word ptr ss:[ebp-0x100],ax	var18 = 0012F5DC
00404CCA	- 8D55 CC	lea edx,dword ptr ss:[ebp-0x34]	
00404CCD	- 8D85 F8FFFFFF	lea eax,dword ptr ss:[ebp-0x100]	
00404CD3	- 52	push edx	var28 = 0012F508 saveto8 = 0012F548
00404CD4	- 8D8D 38FFFFFF	lea ecx,dword ptr ss:[ebp-0xC8]	
00404CDA	- 50	push eax	
00404CDB	- 51	push ecx	var18 = 0012F5DC
00404CDC	- C785 F8FFFFFF	mov dword ptr ss:[ebp-0x100],0x2	
00404CE6	- FF15 C8104000	call dword ptr ds:[<&MSUBUM60.__vbaVarAdd>]	__vbaVarAdd

循环结束，程序将相加的结果和相乘的结果进行比较。如果相等，则返回 FFFF；不想等在返回 0。

在最后再和 FFFF 进行比较，相同说明正确。

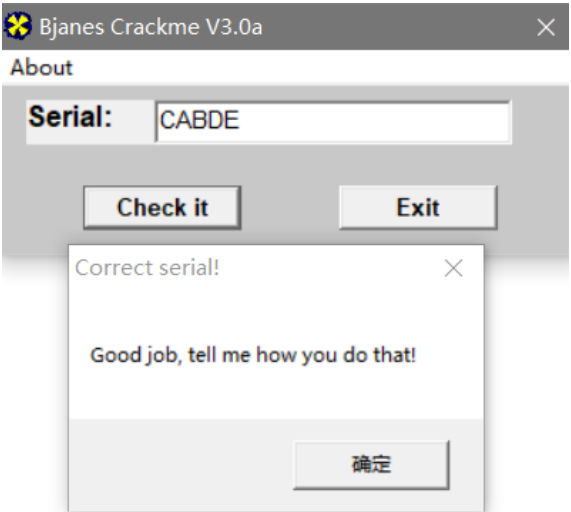
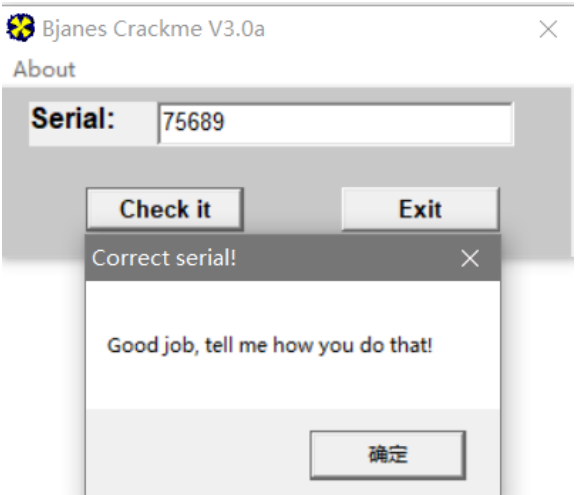
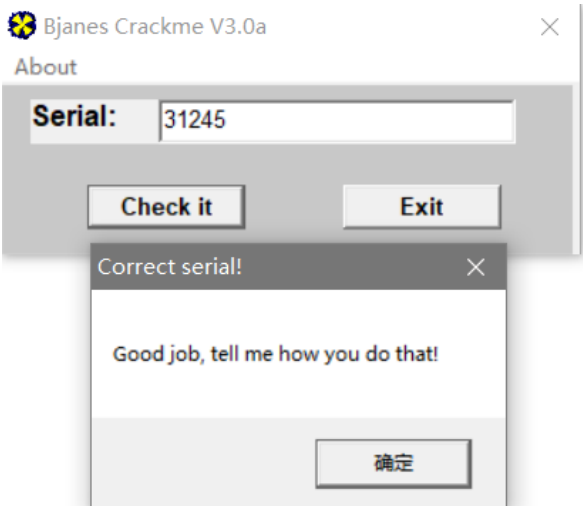
00404D80	- FF92 F8060000	call dword ptr ds:[edx+0x6F8]	进行比较
00404DA6	- 3BC7	cmp eax,edi	msvbun60.__vbaHResultCheckObj
00404DA8	- 7D 12	jge short BJCM30A.00404DBC	
00404DAA	- 68 F8060000	push 0x6F8	
00404DAF	- 68 B4274000	push BJCM30A.004027B4	msvbun60.__vbaHResultCheckObj
00404DB4	- 56	push esi	
00404DB5	- 50	push eax	
00404DB6	- FF15 30104000	call dword ptr ds:[<&MSUBUM60.__vbaHResultCheck0	msvbun60.__vbaHResultCheckObj
00404DBE	- 8D85 74FFFFFF	mov eax,dword ptr ss:[ebp-0x8C]	msvbun60.__vbaHResultCheckObj
00404DC2	- DE 08000000	mov esi,0x8	
00404DC7	- 8D95 48FFFFFF	lea edx,dword ptr ss:[ebp-0xB8]	
00404DCD	- 8D4D CC	lea ecx,dword ptr ss:[ebp-0x34]	msvbun60.__vbaHResultCheckObj
00404DD0	- 898D 74FFFFFF	mov dword ptr ss:[ebp-0x8C],edi	
00404DD6	- 8985 50FFFFFF	mov dword ptr ss:[ebp-0x80],eax	
00404DDC	- 8985 48FFFFFF	mov dword ptr ss:[ebp-0xB8],esi	msvbun60.__vbaHResultCheckObj
00404DE2	- FF15 08104000	call dword ptr ds:[<&MSUBUM60.__vbaHResultCheck0	
00404DE8	- 8D95 70FFFFFF	lea edx,dword ptr ss:[ebp-0x90]	
00404DEE	- 8D85 78FFFFFF	lea eax,dword ptr ss:[ebp-0x88]	msvbun60.__vbaHResultCheckObj
00404DF4	- 52	push edx	
00404DF5	- 8D8D 7CFFFFFF	lea ecx,dword ptr ss:[ebp-0x84]	
00404DFB	- 50	push eax	msvbun60.__vbaHResultCheckObj
00404DFC	- 51	push ecx	
00404DFD	- 6A 03	push 0x3	
00404DFF	- FF15 B4104000	call dword ptr ds:[<&MSUBUM60.__vbaFreeStrList>]	msvbun60.__vbaFreeStrList
00404E05	- 83C4 10	add esp,0x10	msvbun60.__vbaFreeStrList
00404E08	- 8D55 CC	lea edx,dword ptr ss:[ebp-0x34]	
00404E0B	- 8D85 08FFFFFF	lea eax,dword ptr ss:[ebp-0xF8]	
00404E11	- C785 10FFFFFF	mov dword ptr ss:[ebp-0xF0],BJCM30A.00402B58	FFFF
00404E18	- 52	push edx	var18 = 0012F5DC var28 = 0012F518
00404E1C	- 50	push eax	
00404E1D	- C785 08FFFFFF	mov dword ptr ss:[ebp-0xF8],0x8008	
00404E27	- FF15 6C104000	call dword ptr ds:[<&MSUBUM60.__vbaVarIstEq>]	__vbaVarIstEq

4.注册机

- 1. 不能少于5位
- 2. 不能全部相同
- 3. 序列号首位和长度的乘积要等于序列号各位相加的和

本来是想写注册机的，但是我发现了一个有趣的规律，所以就不用写注册机了





当序列号是五位数的时候。序列号首位随便填一个值，然后在 ASCII 码表上找到该值相邻的上面2个值和下面2个值，就是一个可以使用的序列号。

相关文件在我的 Github: <https://github.com/UnreachableLove/160-Crackme/tree/master/Crackme017>

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分类: 160 Crackme

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