

Abex crackme #2 풀이

SCP 20학번 박준형

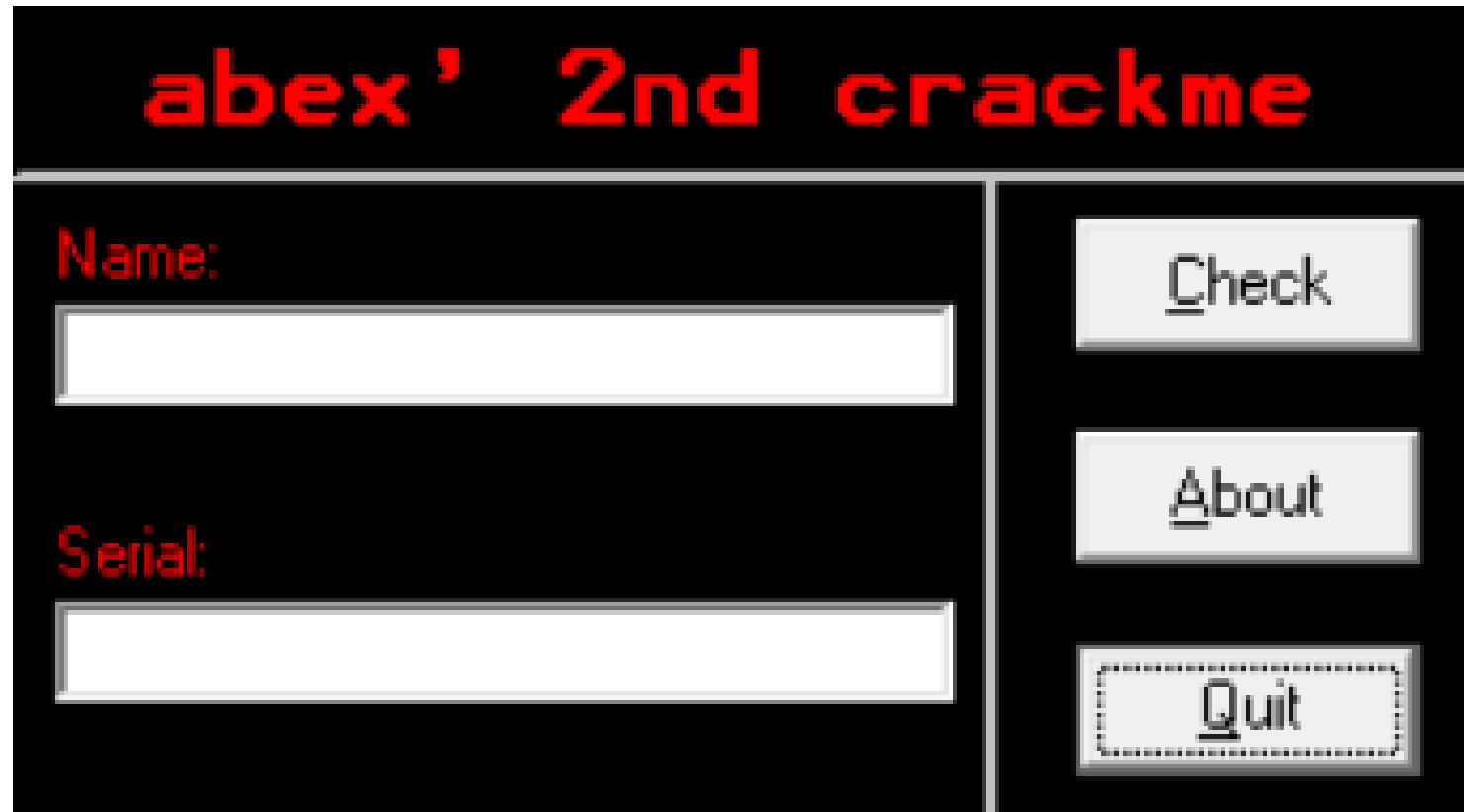
목차

table of contents

- 1 프로그램 동작 방식 이해
- 2 문자열 검색
- 3 스택 분석
- 4 문제 풀이

프로그램 동작 방식 이해

Part 1 프로그램 동작 방식 이해



The image shows a screenshot of a program titled "abex' 2nd crackme". The title is displayed in red, pixelated font on a black background. Below the title, the interface is divided into two main sections. The left section contains two input fields: the first is labeled "Name:" in red, pixelated font, and the second is labeled "Serial:" in red, pixelated font. Both labels are positioned to the left of their respective white input boxes. The right section contains three buttons: "Check", "About", and "Quit". The "Check" and "About" buttons are solid gray with black text, while the "Quit" button is outlined with a dashed border. All buttons have a slight 3D effect with a darker shadow on the bottom.

abex' 2nd crackme

Name:

Serial:

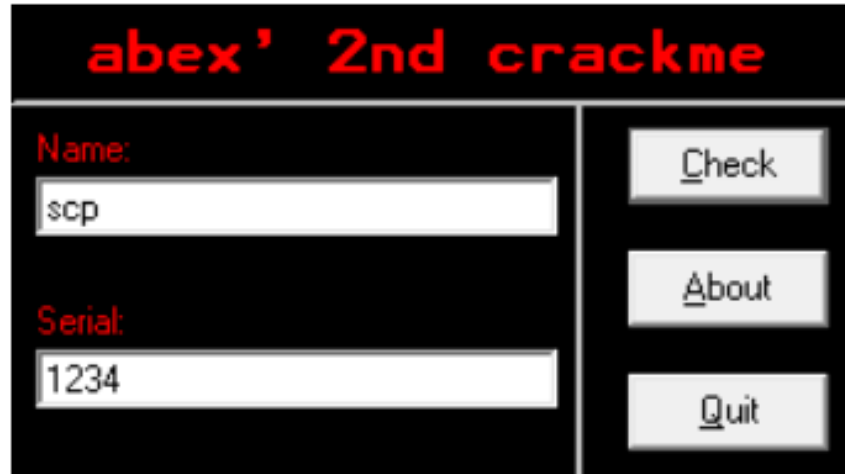
Check

About

Quit

Part 1 프로그램 동작 방식 이해

(이름이 4자리 보다 작을 때)

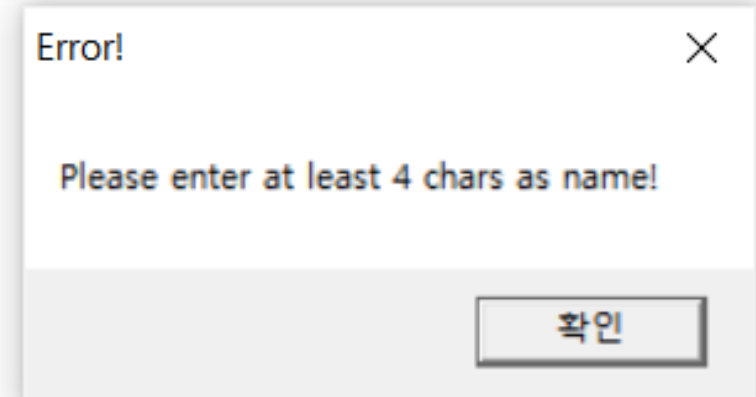


abex' 2nd crackme

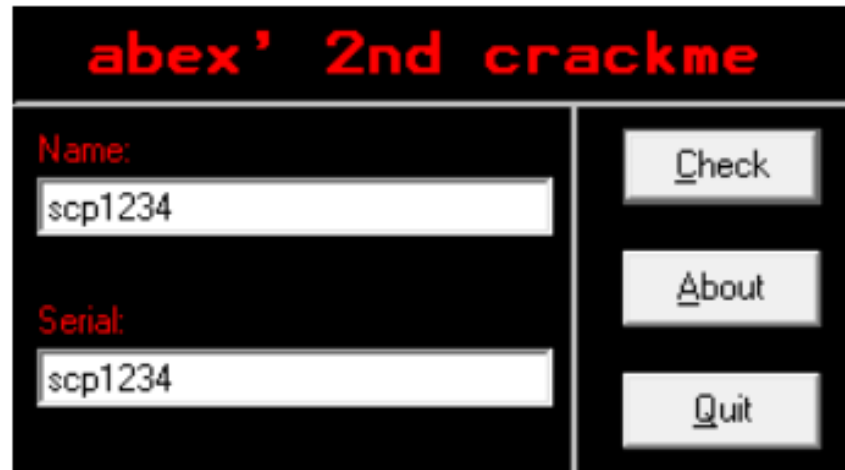
Name: scp

Serial: 1234

Check About Quit



(일련번호가 틀렸을 때)

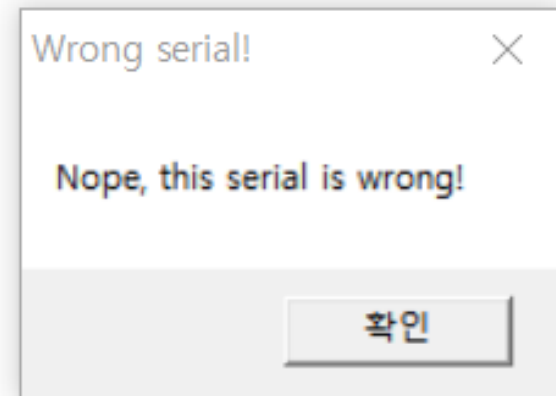


abex' 2nd crackme

Name: scp1234

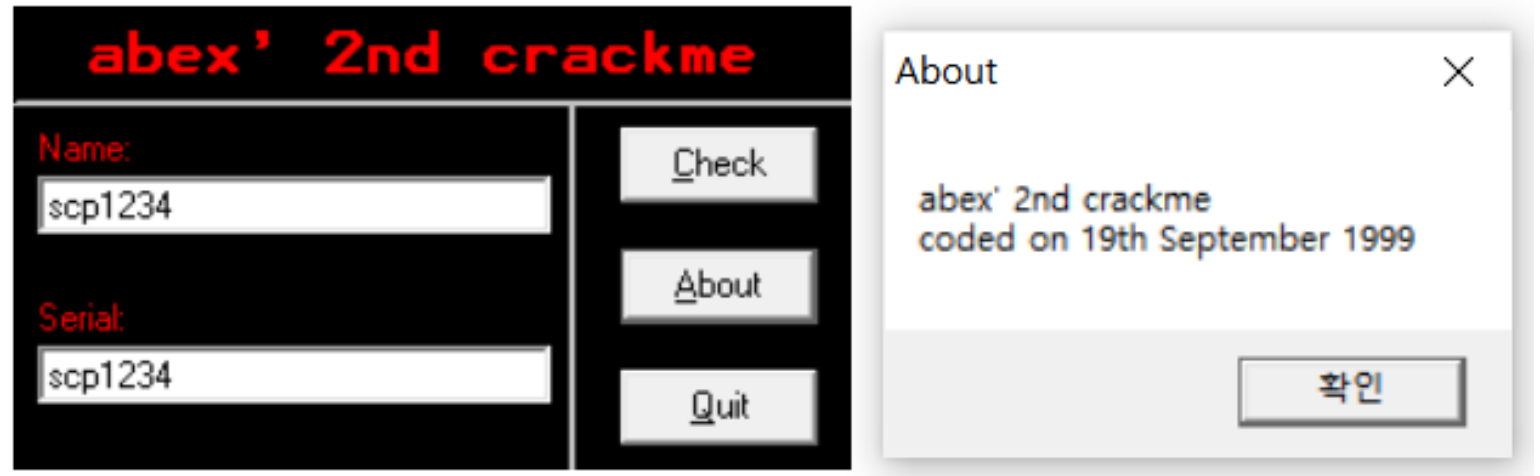
Serial: scp1234

Check About Quit



Part 1 프로그램 동작 방식 이해

(About 버튼 눌렀을 때)



(Quit 버튼 눌렀을 때는 프로그램이 즉시 종료됨)

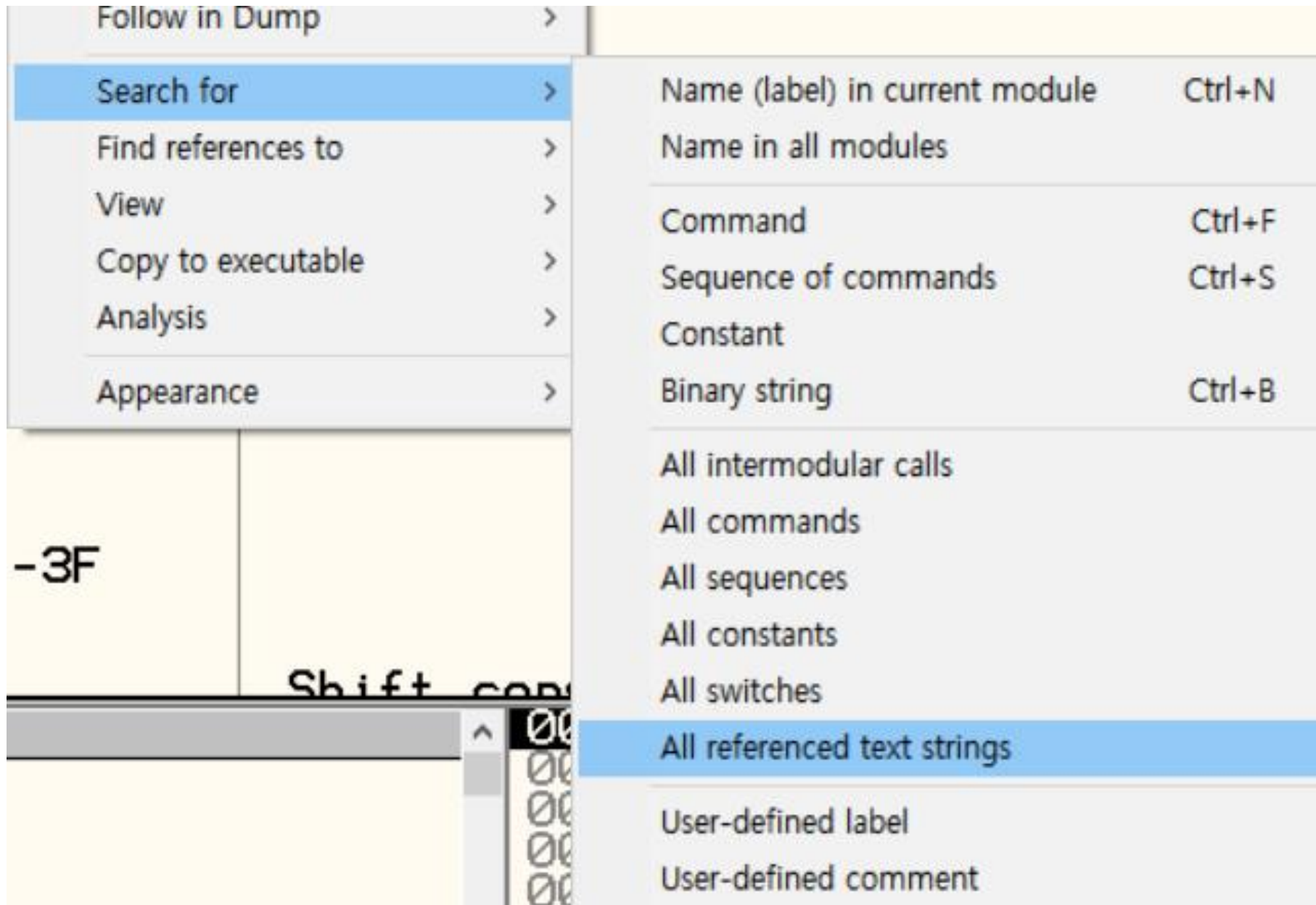
문자열 검색

Part 2 문자열 검색

CPU - main thread, module abexcm2-			
00401238	\$ 68 141E4000	PUSH abexcm2-.00401E14	
0040123D	. E8 F0FFFFFF	CALL <JMP.&MSVBVM60.#100>	
00401242	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401244	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401246	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401248	. 3000	XOR BYTE PTR DS:[EAX],AL	
0040124A	. 0000	ADD BYTE PTR DS:[EAX],AL	
0040124C	. 40	INC EAX	
0040124D	. 0000	ADD BYTE PTR DS:[EAX],AL	
0040124F	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401251	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401253	. 0027	ADD BYTE PTR DS:[EDI],AH	
00401255	. 8CE2	MOV DX,FS	
00401257	. 94	XCHG EAX,ESP	
00401258	. 3C 70	CMP AL,70	
0040125A	. D311	RCL DWORD PTR DS:[ECX],CL	
0040125C	. B3 95	MOV BL,95	
0040125E	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401260	. B4 39	MOV AH,39	
00401262	. 824A 00 00	OR BYTE PTR DS:[EDX],0	
00401266	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401268	. 0000	ADD BYTE PTR DS:[EAX],AL	
0040126A	. 0100	ADD DWORD PTR DS:[EAX],EAX	
0040126C	. 0000	ADD BYTE PTR DS:[EAX],AL	
0040126E	. 0000	ADD BYTE PTR DS:[EAX],AL	
00401270	. FC	CLD	
00401271	. 3A75 01	CMP DH,BYTE PTR SS:[EBP+1]	
00401274	. 50	PUSH EAX	
00401275	✓ 72 6F	JB SHORT abexcm2-.004012E6	
00401277	. 6A 65	PUSH 65	
00401279	. 6B7431 00 C1	IMUL ESI,DWORD PTR DS:[ECX+ESI],-3F	
0040127E	. 40	INC EAX	
0040127F	. 0008	ADD BYTE PTR DS:[EAX],CL	
00401281	. C140 00 00	ROL DWORD PTR DS:[EAX],0	

Shift constant

Part 2 문자열 검색



Part 2 문자열 검색

R Text strings referenced in abexcm2-.text

Address	Disassembly	Text string
00402704	DD abexcm2-.004022A4	ASCII "Command3"
00402729	ASCII "0_",0	
0040272C	DD abexcm2-.004022C0	ASCII "Label1"
00402751	ASCII "0_",0	
00402754	DD abexcm2-.004022C8	ASCII "Label2"
00402779	ASCII "0_",0	
0040277C	DD abexcm2-.004022D4	ASCII "Label3"
004027A1	ASCII "0_",0	
004027A4	DD abexcm2-.004022DC	ASCII "Text1"
00402D88	MOV DWORD PTR SS:[EBP-CC],abexcm2-.0040235C	UNICODE "About"
00402DC9	MOV DWORD PTR SS:[EBP-AC],abexcm2-.004022F4	UNICODE "abex' 2nd crackme"
00402DD9	MOV DWORD PTR SS:[EBP-BC],abexcm2-.0040231C	UNICODE "coded on 19th September 1999"
00403066	MOV DWORD PTR SS:[EBP-E4],abexcm2-.004023D0	UNICODE "Error!"
0040307E	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	(Initial CPU selection)
00403372	MOV DWORD PTR SS:[EBP-E4],abexcm2-.00402418	UNICODE "Congra
0040338A	MOV DWORD PTR SS:[EBP-D4],abexcm2-.004023E4	UNICODE "Yep, t
00403458	MOV DWORD PTR SS:[EBP-E4],abexcm2-.0040247C	UNICODE "Wrong
00403476	MOV DWORD PTR SS:[EBP-D4],abexcm2-.00402440	UNICODE "Nope,
004036B0	ASCII "MSVBVM60.DLL",0	
004036C0	ASCII "_Cicos",0	
004036CA	ASCII "_adj_fptan",0	
004036D8	ASCII "___vbaVarMove",0	
004036E8	ASCII "___vbaFreeVar",0	
004036F8	ASCII "___vbaEnd",0	
00403704	ASCII "___vbaFreeVarList"	
00403714	ASCII 0	
00403718	ASCII "_adj_fdiv_m64",0	
00403728	ASCII "_adj_fprem1",0	

Follow in Disassembler

Search for text

Toggle breakpoint

Conditional breakpoint

Conditional log breakpoint

Set breakpoint on every command

Set log breakpoint on every command

Copy to clipboard

Appearance

Enter

F2

Shift+F2

Shift+F4

>

>

Part 2 문자열 검색

R Text strings referenced in abexcm2-.text		
Address	Disassembly	Text string
00402701	ASCII "0_",0	
00402704	DD abexcm2-.004022A4	ASCII "Command3"
00402729	ASCII "0_",0	
0040272C	DD abexcm2-.004022C0	ASCII "Label1"
00402751	ASCII "0_",0	
00402754	DD abexcm2-.004022C8	ASCII "Label2"
00402779	ASCII "0_",0	
0040277C	DD abexcm2-.004022D4	ASCII "Label3"
004027A1	ASCII "0_",0	
004027A4	DD abexcm2-.004022DC	ASCII "Text1"
00402D88	MOV DWORD PTR SS:[EBP-CC],abexcm2-.0040235C	UNICODE "About"
00402DC9	MOV DWORD PTR SS:[EBP-AC],abexcm2-.004022F4	UNICODE "abex' 2nd crackme"
00402DD9	MOV DWORD PTR SS:[EBP-BC],abexcm2-.0040231C	UNICODE "coded on 19th September 1999"
00402DE6	MOV DWORD PTR SS:[EBP-E4],abexcm2-.004023D0	UNICODE "Error!"
0040307E	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	UNICODE "Please enter at least 4 chars as nar
00403372	MOV DWORD PTR SS:[EBP-E4],abexcm2-.00402418	UNICODE "Congratulations!"
0040338A	MOV DWORD PTR SS:[EBP-D4],abexcm2-.004023E4	UNICODE "Yep, this key is right!"
00403458	MOV DWORD PTR SS:[EBP-E4],abexcm2-.0040247C	UNICODE "Wrong serial!"
00403476	MOV DWORD PTR SS:[EBP-D4],abexcm2-.00402440	UNICODE "Nope, this serial is wrong!"
004036B0	ASCII "MSVBVM60.DLL",0	
004036C0	ASCII "_Cicos",0	
004036CA	ASCII "_adj_fptan",0	
004036D8	ASCII "__vbaVarMove",0	
004036E8	ASCII "__vbaFreeVar",0	
004036F8	ASCII "__vbaEnd",0	
00403704	ASCII "__vbaFreeVarList"	
00403714	ASCII 0	
00403718	ASCII "_adj_fdiv_m64",0	

Part 2 문자열 검색

0040307E	. C785 2CFFFFFF	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	UNICODE "Please enter at least 4 chars as name!"
00403088	. C785 24FFFFFF	MOV DWORD PTR SS:[EBP-DC],8	
00403092	. FFD3	CALL EBX	
00403094	. 8D85 34FFFFFF	LEA EAX,DWORD PTR SS:[EBP-CC]	
0040309A	. 8D8D 44FFFFFF	LEA ECX,DWORD PTR SS:[EBP-BC]	
004030A0	. 50	PUSH EAX	
004030A1	. 8D95 54FFFFFF	LEA EDX,DWORD PTR SS:[EBP-AC]	
004030A7	. 51	PUSH ECX	
004030A8	. 52	PUSH EDX	
004030A9	. 8D85 64FFFFFF	LEA EAX,DWORD PTR SS:[EBP-9C]	
004030AF	. 57	PUSH EDI	
004030B0	. 50	PUSH EAX	
004030B1	. FF15 34104000	CALL DWORD PTR DS:[&MSVBVM60.#595]	MSVBVM60.rtcMsgBox
004030B7	. 8D95 E4FEFFFF	LEA EDX,DWORD PTR SS:[EBP-11C]	
004030BD	. 8D4D 9C	LEA ECX,DWORD PTR SS:[EBP-64]	
004030C0	. 8985 ECFEFFFF	MOV DWORD PTR SS:[EBP-114],EAX	
004030C6	. C785 E4FEFFFF	MOV DWORD PTR SS:[EBP-11C],3	
004030D0	. FFD6	CALL ESI	

Part 2 문자열 검색

CPU - main thread, module abexcm2-

0040307E . C785 2CEFFFFFF MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C UNICODE "Please enter at least 4 chars as name!"
C785 24FFFFFF MOV DWORD PTR SS:[EBP-DC],8

00403088
00403092
00403094
0040309A
004030A0
004030A1
004030A7
004030A8
004030A9
004030AF
004030B0
004030B1
004030B7
004030BD
004030C0
004030C6
004030D0
004030D2
004030D8
004030DE
004030DF
004030E5
004030E6
004030EC
004030ED
004030EE
004030F0
004030F6
004030F9
004030FC
00403102
00403107
00403108

Text strings referenced in abexcm2-.text

Address	Disassembly	Text string
00402751	ASCII "0_",0	
00402754	DD abexcm2-.004022C8	ASCII "Label2"
00402779	ASCII "0_",0	
0040277C	DD abexcm2-.004022D4	ASCII "Label3"
004027A1	ASCII "0_",0	
004027A4	DD abexcm2-.004022DC	ASCII "Text1"
00402D88	MOV DWORD PTR SS:[EBP-CC],abexcm2-.0040235C	UNICODE "About"
00402DC9	MOV DWORD PTR SS:[EBP-AC],abexcm2-.004022F4	UNICODE "abex' 2nd crackme"
00402DD9	MOV DWORD PTR SS:[EBP-BC],abexcm2-.0040231C	UNICODE "coded on 19th September 1999"
00403066	MOV DWORD PTR SS:[EBP-E4],abexcm2-.004023D0	UNICODE "Error!"
0040307E	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	(Initial CPU selection)
00403372	MOV DWORD PTR SS:[EBP-E4],abexcm2-.00402418	UNICODE "Congratulations!"
0040338A	MOV DWORD PTR SS:[EBP-D4],abexcm2-.004023E4	UNICODE "Yep, this key is right!"
00403458	MOV DWORD PTR SS:[EBP-E4],abexcm2-.0040247C	UNICODE "Wrong serial!"
00403476	MOV DWORD PTR SS:[EBP-D4],abexcm2-.00402440	UNICODE "Nope, this serial is wrong!"
004036B0	ASCII "MSVBVM60.DLL",0	
004036C0	ASCII "_Cicos",0	
004036CA	ASCII "_adj_fptan",0	
004036D8	ASCII "___vbaVarMove",0	
004036E8	ASCII "___vbaFreeVar",0	
004036F8	ASCII "___vbaEnd",0	
00403704	ASCII "___vbaFreeVarList"	
00403714	ASCII 0	
00403718	ASCII "_adj_fdiv_m64",0	
00403728	ASCII "_adj_fprem1",0	
00403736	ASCII "___vbaHresultChec"	
00403746	ASCII "kObj",0	
0040374E	ASCII "___vbaLenVar",0	

스택 분석

Part 3 스택 분석

0040304E	. 8D95 14FFFFFF	LEA EDX,DWORD PTR SS:[EBP-EC]	
00403054	. 8D8D 54FFFFFF	LEA ECX,DWORD PTR SS:[EBP-AC]	← BP (Break Point)
0040305A	. 8985 34FFFFFF	MOV DWORD PTR SS:[EBP-CC],EAX	
00403060	. 8985 44FFFFFF	MOV DWORD PTR SS:[EBP-BC],EAX	
00403066	. C785 1CFFFFFF D02340	MOV DWORD PTR SS:[EBP-E4],abexcm2-	004023D0 UNICODE "Error!"
00403070	. FFD3	CALL EBX	<&MSVBVM60.__vbaVarDup>
00403072	. 8D95 24FFFFFF	LEA EDX,DWORD PTR SS:[EBP-DC]	
00403078	. 8D8D 64FFFFFF	LEA ECX,DWORD PTR SS:[EBP-9C]	
0040307E	. C785 2CFFFFFF 7C2340	MOV DWORD PTR SS:[EBP-D4],abexcm2-	0040237C UNICODE "Please enter at least 4 char
00403088	. C785 24FFFFFF 080000	MOV DWORD PTR SS:[EBP-DC],8	
00403092	. FFD3	CALL EBX	
00403094	. 8D85 34FFFFFF	LEA EAX,DWORD PTR SS:[EBP-CC]	
0040309A	. 8D8D 44FFFFFF	LEA ECX,DWORD PTR SS:[EBP-BC]	
004030A0	. 50	PUSH EAX	
004030A1	. 8D95 54FFFFFF	LEA EDX,DWORD PTR SS:[EBP-AC]	
004030A7	. 51	DISCU ECX	

Part 3 스택 분석

CPU - main thread, module abexcm2-

00403048	. 8B1D B0104000	MOV EBX,DWORD PTR DS:[<&MSVBVM60.__vbaVarDup	MSVBVM60.__vbaVarDup
0040304E	. 8D95 14FFFFFF	LEA EDX,DWORD PTR SS:[EBP-EC]	
00403054	. 8D8D 54FFFFFF	LEA ECX,DWORD PTR SS:[EBP-AC]	
0040305A	. 8985 34FFFFFF	MOV DWORD PTR SS:[EBP-CC],EAX	
00403060	. 8985 44FFFFFF	MOV DWORD PTR SS:[EBP-BC],EAX	
00403066	. C785 1CFFFFFF D02340	MOV DWORD PTR SS:[EBP-E4],abexcm2-.004023D0	UNICODE "Error!"
00403070	. FFD3	CALL EBX	<&MSVBVM60.__vbaVarDup>
00403072	. 8D95 24FFFFFF	LEA EDX,DWORD PTR SS:[EBP-DC]	
00403078	. 8D8D 64FFFFFF	LEA ECX,DWORD PTR SS:[EBP-9C]	
0040307E	. C785 2CFFFFFF 7C2340	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	UNICODE "Please enter at least 4 char:
00403088	. C785 24FFFFFF 080000	MOV DWORD PTR SS:[EBP-DC],8	
00403092	. FFD3	CALL EBX	
00403094	. 8D85 34FFFFFF	LEA EAX,DWORD PTR SS:[EBP-CC]	
0040309A	. 8D8D 44FFFFFF	LEA ECX,DWORD PTR SS:[EBP-BC]	
004030A0	. 50	PUSH EAX	
004030A1	. 8D95 54FFFFFF	LEA EDX,DWORD PTR SS:[EBP-AC]	
004030A7	. 51	PUSH ECX	
004030A8	. 52	PUSH EDX	
004030A9	. 8D85 64FFFFFF	LEA EAX,DWORD PTR	
004030AF	. 57	PUSH EDI	
004030B0	. 50	PUSH EAX	
004030B1	. FF15 34104000	CALL DWORD PTR DS:	
004030B7	. 8D95 E4FEFFFF	LEA EDX,DWORD PTR	
004030BD	. 8D4D 9C	LEA ECX,DWORD PTR	
004030C0	. 8985 ECFEFFFF	MOV DWORD PTR SS:[
004030C6	. C785 E4FEFFFF 030000	MOV DWORD PTR SS:[EBP-11C],3	
004030D0	. FFD6	CALL ESI	
004030D2	. 8D8D 34FFFFFF	LEA ECX,DWORD PTR SS:[EBP-CC]	
004030D8	. 8D95 44FFFFFF	LEA EDX,DWORD PTR SS:[EBP-BC]	
004030DE	. 51	PUSH ECX	
004030DF	. 8D85 54FFFFFF	LEA EAX,DWORD PTR SS:[EBP-AC]	
004030E5	. 52	PUSH EDX	
004030E6	. 8D8D 64FFFFFF	LEA ECX,DWORD PTR SS:[EBP-9C]	
004030EC	. 50	PUSH EAX	

abex' 2nd crackme

Name:

ab

Check

Serial:

1234

About

Quit

MSVBVM60.rtcMsgBox

Part 3 스택 분석

00403048	. 8B1D B0104000	MOV EBX,DWORD PTR DS:[<&MSVBVM60.__vbaVarDup	MSVBVM60.__vbaVarDup
0040304E	. 8D95 14FFFFFF	LEA EDX,DWORD PTR SS:[EBP-EC]	
00403054	. 8D8D 54FFFFFF	LEA ECX,DWORD PTR SS:[EBP-AC]	
0040305A	. 8985 34FFFFFF	MOV DWORD PTR SS:[EBP-CC],EAX	
00403060	. 8985 44FFFFFF	MOV DWORD PTR SS:[EBP-BC],EAX	
00403066	. C785 1CFFFFFF D02340	MOV DWORD PTR SS:[EBP-E4],abexcm2-.004023D0	UNICODE "Error!"
00403070	. FFD3	CALL EBX	<&MSVBVM60.__vbaVarDup>
00403072	. 8D95 24FFFFFF	LEA EDX,DWORD PTR SS:[EBP-DC]	
00403078	. 8D8D 64FFFFFF	LEA ECX,DWORD PTR SS:[EBP-9C]	
0040307E	. C785 2CFFFFFF 7C2340	MOV DWORD PTR SS:[EBP-D4],abexcm2-.0040237C	UNICODE "Please enter at least 4 char
00403088	. C785 24FFFFFF 080000	MOV DWORD PTR SS:[EBP-DC],8	
00403092	. FFD3	CALL EBX	
00403094	. 8D85 34FFFFFF	LEA EAX,DWORD PTR SS:[EBP-CC]	
0040309A	. 8D8D 44FFFFFF	LEA ECX,DWORD PTR SS:[EBP-BC]	
004030A0	. 50	PUSH EAX	
004030A1	. 8D95 54FFFFFF	LEA EDX,DWORD PTR SS:[EBP-AC]	
004030A7	. 51	PUSH ECX	
004030A8	. 52	PUSH EDX	
004030A9	. 8D85 64FFFFFF	LEA EAX,DWORD PTR SS:[EBP-9C]	
004030AF	. 57	PUSH EDI	
004030B0	. 50	PUSH EAX	
004030B1	. FF15 34104000	CALL DWORD PTR DS:[<&MSVBVM60.#595>]	MSVBVM60.rtcMsgBox
004030B7	. 8D95 E4FEFFFF	LEA EDX,DWORD PTR SS:[EBP-11C]	
004030BD	. 8D4D 9C	LEA ECX,DWORD PTR SS:[EBP-64]	
004030C0	. 8985 ECFEFFFF	MOV DWORD PTR SS:[EBP-114],EAX	
004030C6	. C785 E4FEFFFF 030000	MOV DWORD PTR SS:[EBP-11C],3	
004030D0	. FFD6	CALL ESI	
004030D2	. 8D8D 34FFFFFF	LEA ECX,DWORD PTR SS:[EBP-CC]	
004030D8	. 8D95 44FFFFFF	LEA EDX,DWORD PTR SS:[EBP-BC]	
004030DE	. 51	PUSH ECX	
004030DF	. 8D85 54FFFFFF	LEA EAX,DWORD PTR SS:[EBP-AC]	
004030E5	. 52	PUSH EDX	
004030E6	. 8D8D 64FFFFFF	LEA ECX,DWORD PTR SS:[EBP-9C]	
004030EC	. 50	PUSH EAX	

Part 3 스택 분석

00403048	. 8B1D B0104000		MOV EBX, DWORD PTR DS: [<&MSVBVM60.__vbaVarDup	MSVB
0040304E	. 8D95 14FFFFFF		LEA EDX, DWORD PTR SS: [EBP-EC]	
00403054	. 8D8D 54FFFFFF		LEA ECX, DWORD PTR SS: [EBP-AC]	
0040305A	. 8985 34FFFFFF		MOV DWORD PTR SS: [EBP-CC], EAX	
00403060	. 8985 44FFFFFF		MOV DWORD PTR SS: [EBP-BC], EAX	
00403066	. C785 1CFFFFFF	D0234000	MOV DWORD PTR SS: [EBP-E4], abexcm2-.004023D0	UNIC
00403070	. FFD3		CALL EBX	MSVB
00403072	. 8D95 24FFFFFF		LEA EDX, DWORD PTR SS: [EBP-DC]	
00403078	. 8D8D 64FFFFFF		LEA ECX, DWORD PTR SS: [EBP-9C]	
0040307E	. C785 2CFFFFFF	7C234000	MOV DWORD PTR SS: [EBP-D4], abexcm2-.0040237C	UNIC
00403088	. C785 24FFFFFF	08000000	MOV DWORD PTR SS: [EBP-DC], 8	
00403092	. FFD3		CALL EBX	
00403094	. 8D85 34FFFFFF		LEA EAX, DWORD PTR SS: [EBP-CC]	
0040309A	. 8D8D 44FFFFFF		LEA ECX, DWORD PTR SS: [EBP-BC]	
004030A0	. 50		PUSH EAX	
004030A1	. 8D95 54FFFFFF		LEA EDX, DWORD PTR SS: [EBP-AC]	
004030A7	. 51		PUSH ECX	
004030A8	. 52		PUSH EDX	
004030A9	. 8D85 64FFFFFF		LEA EAX, DWORD PTR SS: [EBP-9C]	
004030AF	. 57		PUSH EDI	
004030B0	. 50		PUSH EAX	
004030B1	. FF15 34104000		CALL DWORD PTR DS: [<&MSVBVM60.#595>]	MSVB
004030B7	. 8D95 E4FEFFFF		LEA EDX, DWORD PTR SS: [EBP-11C]	
004030BD	. 8D4D 9C		LEA ECX, DWORD PTR SS: [EBP-64]	
004030C0	. 8985 ECFEFFFF		MOV DWORD PTR SS: [EBP-114], EAX	
004030C6	. C785 E4FEFFFF	03000000	MOV DWORD PTR SS: [EBP-11C], 3	
004030D0	. FFD6		CALL ESI	
004030D2	. 8D8D 34FFFFFF		LEA ECX, DWORD PTR SS: [EBP-CC]	
004030D8	. 8D95 44FFFFFF		LEA EDX, DWORD PTR SS: [EBP-BC]	
004030DE	. 51		PUSH ECX	
004030E5	. 8D85 54FFFFFF		LEA EAX, DWORD PTR SS: [EBP-AC]	

Registers (FF)	
EAX	0000000A
ECX	0019F220
EDX	0019F1E0
EBX	73476DF6
ESP	0019F168
EBP	0019F2CC
ESI	73476AEE
EDI	00000000

Part 3 스택 분석

Relative to selection

Relative to ESP

Relative to EBP

L 00000286 (NO,N

0 empty 0.0

1 empty 0.0

2 empty 0.0

3 empty 0.0

4 empty 1.000000

5 empty 120000.0

6 empty 120000.0

7 empty 0.0

T 0000 Cond 0 0

W 137F Prec NEA

Address >

Hide dump

Show ASCII dump

Lock stack

Copy to clipboard Ctrl+C

Modify

Edit Ctrl+E

Push DWORD

Pop DWORD

Search for address

Search for binary string Ctrl+B

Go to ESP *

Go to EBP

Go to expression Ctrl+G

Appearance >

19F168 0019F2D8

19F16C 0019F3A8

EBP-164	0019F2D8	↓
EBP-160	0019F3A8	↓
EBP-15C	00000001	☺.
EBP-158	75FCD402	是 適
EBP-154	00000000	.
EBP-150	0000D402	是 .
EBP-14C	FF7F22E2	;
EBP-148	0019F1A8	↓
EBP-144	00000000	.
EBP-140	00000000	☺.

문제해결

Part 4 문제 해결

004032E2	. 50	PUSH EAX	
004032E3	. FF15 24104000	CALL DWORD PTR DS:[<&MSVBVM60.__vbaHresultChe	MSVBVM60.__v
004032E9	> 8B85 78FFFFFF	MOV EAX,DWORD PTR SS:[EBP-88]	
004032EF	. BF 08000000	MOV EDI,8	
004032F4	. 8D95 64FFFFFF	LEA EDX,DWORD PTR SS:[EBP-9C]	
004032FA	. 8D4D CC	LEA ECX,DWORD PTR SS:[EBP-34]	
004032FD	. C785 78FFFFFF	MOV DWORD PTR SS:[EBP-88],0	
00403307	. 8985 6CFFFFFF	MOV DWORD PTR SS:[EBP-94],EAX	
0040330D	. 89BD 64FFFFFF	MOV DWORD PTR SS:[EBP-9C],EDI	
00403313	. FFD6	CALL ESI	
00403315	. 8D8D 74FFFFFF	LEA ECX,DWORD PTR SS:[EBP-8C]	
0040331B	. FF15 C8104000	CALL DWORD PTR DS:[<&MSVBVM60.__vbaFreeObj>]	MSVBVM60.__v
00403321	. 8D55 BC	LEA EDX,DWORD PTR SS:[EBP-44]	
00403324	. 8D45 CC	LEA EAX,DWORD PTR SS:[EBP-34]	
00403327	. 52	PUSH EDX	
00403328	. 50	PUSH EAX	
00403329	. FF15 58104000	CALL DWORD PTR DS:[<&MSVBVM60.__vbaFreeObj>]	MSVBVM60.__v
0040332F	. 66:85C0	TEST AX,AX	
00403332	. 0F84 D0000000	JE abexcm2-.00403408	
00403338	. B8 04000280	MOV EAX,80020004	
0040333D	. BB 0A000000	MOV EBX,0A	
00403342	. 89BD 14FFFFFF	MOV DWORD PTR SS:[EBP-EC]	
00403348	. 8B3D B0104000	MOV EDI,DWORD PTR DS:[<&MSVBVM60.__vbaFreeObj>]	MSVBVM60.__v
0040334E	. 8D95 14FFFFFF	LEA EDX,DWORD PTR SS:[EBP-9C]	
00403354	. 8D8D 54FFFFFF	LEA ECX,DWORD PTR SS:[EBP-34]	
0040335A	. 8985 3CFFFFFF	MOV DWORD PTR SS:[EBP-C4],EAX	
00403360	. 899D 34FFFFFF	MOV DWORD PTR SS:[EBP-CC],EBX	
00403366	. 8985 4CFFFFFF	MOV DWORD PTR SS:[EBP-B4],EAX	
0040336C	. 899D 44FFFFFF	MOV DWORD PTR SS:[EBP-BC],EBX	
00403372	. C785 1CFFFFFF	MOV DWORD PTR SS:[EBP-E4],abexcm2-.00402418	UNICODE "Cor
0040337C	. FFD7	CALL EDI	MSVBVM60.__v

abex' 2nd crackme

Name:

Serial:

Part 4 문제 해결

004032E3	. FF15 24104000		CALL DWORD PTR DS:[<&MSVBVM60. __vb. ^	MSVBVM60. __vb. ^
004032E9	> 8B85 78FFFFFF		MOV EAX, DWORD PTR SS:[EBP-88]	
004032EF	. BF 08000000		MOV EDI, 8	
004032F4	. 8D95 64FFFFFF		LEA EDX, DWORD PTR SS:[EBP-9C]	
004032FA	. 8D4D CC		LEA ECX, DWORD PTR SS:[EBP-34]	
004032FD	. C785 78FFFFFF 00000000		MOV DWORD PTR SS:[EBP-88], 0	
00403307	. 8985 6CFFFFFF		MOV DWORD PTR SS:[EBP-94], EAX	
0040330D	. 89BD 64FFFFFF		MOV DWORD PTR SS:[EBP-9C], EDI	
00403313	. FFD6		CALL ESI	
00403315	. 8D8D 74FFFFFF		LEA ECX, DWORD PTR SS:[EBP-8C]	
0040331B	. FF15 C8104000		CALL DWORD PTR DS:[<&MSVBVM60. __vb.	MSVBVM60. __vb.
00403321	. 8D55 BC		LEA EDX, DWORD PTR SS:[EBP-44]	
00403324	. 8D45 CC		LEA EAX, DWORD PTR SS:[EBP-34]	
00403327	. 52		PUSH EDX	
00403328	. 50		PUSH EAX	
00403329	. FF15 58104000		CALL DWORD PTR DS:[<&MSVBVM60. __vb.	MSVBVM60. __vb.
0040332F	. 66:85C0		TEST AX, AX	
00403332	✓ 0F84 D0000000		JE abexcm2-.00403408	
00403338	. B8 04000280		MOV EAX, 80020004	
0040333D	. BB 0A000000		MOV EBX, 0A	
00403342	. 89BD 14FFFFFF		MOV DWORD PTR SS:[EBP-EC], EDI	
00403348	. 8B3D B0104000		MOV EDI, DWORD PTR DS:[<&MSVBVM60. _	MSVBVM60. __vb.
0040334E	. 8D95 14FFFFFF		LEA EDX, DWORD PTR SS:[EBP-EC]	
00403354	. 8D8D 54FFFFFF		LEA ECX, DWORD PTR SS:[EBP-AC]	
0040335A	. 8985 3CFFFFFF		MOV DWORD PTR SS:[EBP-C4], EAX	
00403360	. 899D 34FFFFFF		MOV DWORD PTR SS:[EBP-CC], EBX	
00403366	. 8985 4CFFFFFF		MOV DWORD PTR SS:[EBP-B4], EAX	
0040336C	. 899D 44FFFFFF		MOV DWORD PTR SS:[EBP-BC], EBX	
00403372	. C785 1CFFFFFF 18244000		MOV DWORD PTR SS:[EBP-E4], abexcm2-	UNICODE "Cong
0040337C	. FFD7		CALL EDI	<&MSVBVM60. __v
0040337E	. 8D95 24FFFFFF		LEA EDX, DWORD PTR SS:[EBP-DC]	

Part 4 문제 해결

Address	Disassembly	Comment	Register
004032EF	MOV EDI, 8		EAX 005E
004032F4	LEA EDX, DWORD PTR SS:[EBP-9C]		ECX 0019
004032FA	LEA ECX, DWORD PTR SS:[EBP-34]		EDX 0019
004032FD	MOV DWORD PTR SS:[EBP-88], 00000000		EBX 7345
00403307	MOV DWORD PTR SS:[EBP-94]		ESP 0019
0040330D	MOV DWORD PTR SS:[EBP-9C]		EBP 0019
00403313	CALL ESI		ESI 7347
00403315	LEA ECX, DWORD PTR SS:[EBP-34]		EDI 0000
0040331B	CALL DWORD PTR DS:[<&MSVB...]		EIP 0040
00403321	LEA EDX, DWORD PTR SS:[EBP-9C]		
00403324	LEA EAX, DWORD PTR SS:[EBP-9C]		
00403327	PUSH EDX		
00403328	PUSH EAX		
00403329	CALL DWORD PTR DS:[<&MSVB...]		
0040332F	TEST AX, AX		
00403332	JE abexcm2-.00403408		
00403338	MOV EAX, 80020004		
0040333D	MOV EBX, 0A		
00403342	MOV DWORD PTR SS:[EBP-EC]		
00403348	MOV EDI, DWORD PTR DS:[<&MSVB...]		
0040334E	LEA EDX, DWORD PTR SS:[EBP-9C]		
00403354	LEA ECX, DWORD PTR SS:[EBP-34]		
0040335A	MOV DWORD PTR SS:[EBP-C4]		
00403360	MOV DWORD PTR SS:[EBP-CC]		
00403366	MOV DWORD PTR SS:[EBP-B4]		
0040336C	MOV DWORD PTR SS:[EBP-BC]		
00403372	MOV DWORD PTR SS:[EBP-E4]		
0040337C	CALL EDI		
0040337E	LEA EDX, DWORD PTR SS:[EBP-9C]		
00403384	LEA ECX, DWORD PTR SS:[EBP-34]		
0040338A	MOV DWORD PTR SS:[EBP-D4]		

Backup >

Copy >

Binary >

Assemble > Space

Label :

Comment ;

Breakpoint >

Hit trace >

Run trace >

Go to >

Thread >

Follow in Dump > Selection

Search for > Memory address

Find references to >

View >

Copy to executable >

Analysis >

Appearance >

Register

EAX 005E

ECX 0019

EDX 0019

EBX 7345

ESP 0019

EBP 0019

ESI 7347

EDI 0000

EIP 0040

C 0 ES

P 1 CS

A 0 SS

Z 1 DS

S 0 FS

T 0 GS

D 0

O 0 Last

Part 4 문제 해결

0040335A : 8985 3CFFFFFF MOV DWORD PTR SS:[EBP-
00403360 : 899D 34FFFFFF MOV DWORD PTR SS:[EBP-
00403366 : 8985 4CFFFFFF MOV DWORD PTR SS:[EBP-
0040336C : 899D 44FFFFFF MOV DWORD PTR SS:[EBP-
00403372 : C785 1CFFFFFF 18244000 MOV DWORD PTR SS:[EBP-
0040337C : FFD7 CALL EDI
0040337E : 8D95 24FFFFFF LEA EDX,DWORD PTR SS:[
00403384 : 8D8D 64FFFFFF LEA ECX,DWORD PTR SS:[
0040338A : C785 2CFFFFFF 54224000 MOV DWORD PTR SS:[EBP-
Stack SS:[0019F244]=006040BC, (UNICODE "1234")

Address	Value	ASCII	Comment
0019F238	0060432C	.C'.	UNICODE "C5C6C7C8"
0019F23C	0019F230	0?.	
0019F240	02AA2D94	??	
0019F244	006040BC	?'. UNICODE "1234"	
0019F248	00000000	
0019F24C	0000000E	♪... 0...	
0019F250	00000030	0...	
0019F254	00000000	

Search for >
Follow in Dump
Go to >
Hex >
Text >
Short >
✓ Long >
Float >
Disassemble
Special >
Appearance >

UNICODE "Cong
&MSVBVM60. _
UNICODE "Ver
ST1 emp
ST2 emp
ST3 emp
ST4 emp
ST5 emp
ST6 emp
ST7 emp
EST 000
7
5
7
7
0019F17
0019F18
0019F18
0019F18
0019F18

Signed decimal
Unsigned decimal
Hex
Address
✓ Address with ASCII dump
Address with UNICODE dump

Part 4 문제 해결

Address	Value	ASCII	Comment
0019F238	0060432C	,C'.	UNICODE "C5C6C7C8"
0019F23C	0019F230	0?.	
0019F240	02AA2D94	??	
0019F244	006040BC	?'.	UNICODE "1234"
0019F248	00000000	
0019F24C	0000000E	♪. . .	
0019F250	00000030	0. . .	
0019F254	00000000	

Part 4 문제 해결

0019F230	00000000	..	↓	UNICODE "C5C6C7C
0019F234	0019F27	' '		
0019F238	0060432	' '	↓	UNICODE " 1234"
0019F23C	0019F23	' '		
0019F240	02AA2D9	' '	↓	
0019F244	006040B	' '		
0019F248	00000000	..	↓	
0019F24C	00000000	..		
0019F250	00000003	0.	↓	
0019F254	00000000	..		

Part 4 문제 해결

Address

Hide dump

Show ASCII dump

Lock stack

Copy to clipboard

Modify

Edit

Push DWORD

Pop DWORD

Search for address

Search for binary string

Go to ESP

Go to EBP

Go to expression

Follow in Dump

Appearance

Relative to selection

Relative to ESP

Relative to EBP

FFFFFFFF

ACCESS (00000000)

BE, NS, PE, GE, LE)

000000000000

000000000000

000000000000

0

0

Err

Mask

ESP

U

0

0

0

1

1

1

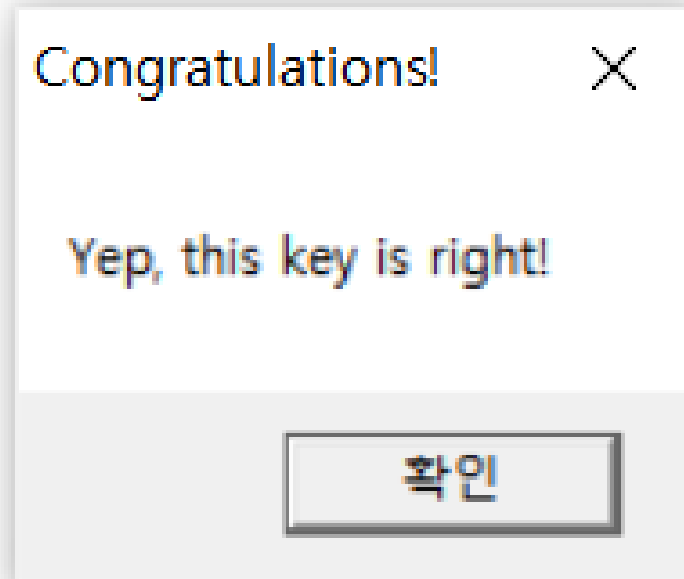
EBP-9C	00000000	.	
EBP-98	0019F278	.	
EBP-94	0060432C	'	UNICODE "C5C6C7C8"
EBP-90	0019F230	.	
EBP-8C	02AA2D94	'	
EBP-88	006040BC	'	UNICODE "1234"
EBP-84	00000000	.	
EBP-80	0000000E	.	
EBP-7C	00000030	0	

Part 4 문제 해결

abex' 2nd crackme

Name:

Serial:



Q&A