



Case Western Reserve University

Department of Computer and Data Sciences

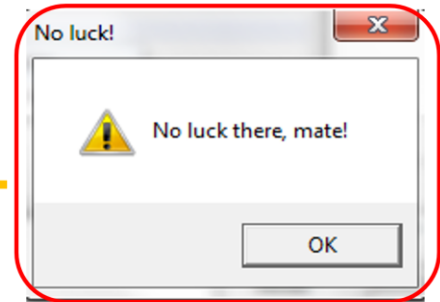
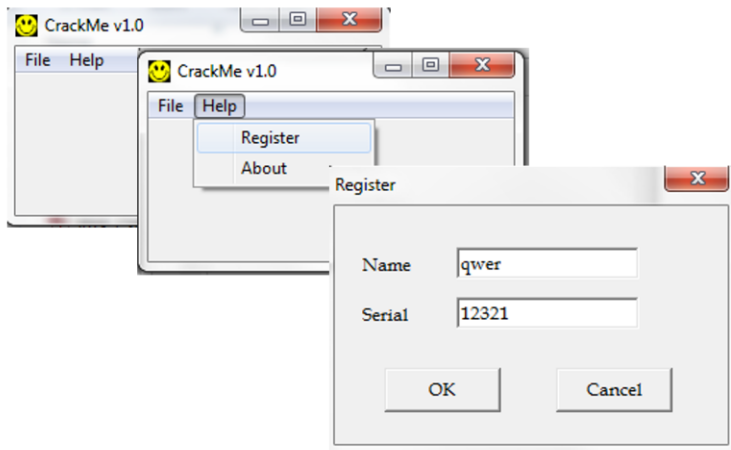
EECS 349&444: Computer Security

Assignment Date:	Q1 on 10/24/2019 & Q2 on 10/29/2019
Due Date:	10/29/2019 @11:59pm
First Name:	
Last Name:	
Google Drive Link:	
Abstract of the feedback:	

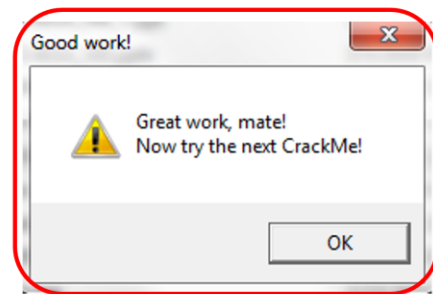
* This is the first part of HW3 which contains 50 points. You are encouraged to finish independently. Any submitted work that is copied from any source or too similar to be an independent write-up will not be given credit. **Please post your cracked binary for Q1 and your solutions along with your detailed analysis (i.e., algorithm) regarding how to generate the serial of any input name for Q2 in GitHub and provide your GitHub link for this submission on Canvas by 23:59pm on 10/29/2019.**

Q1: See detailed description below. (15pts)

Crack Me!



Message (a)



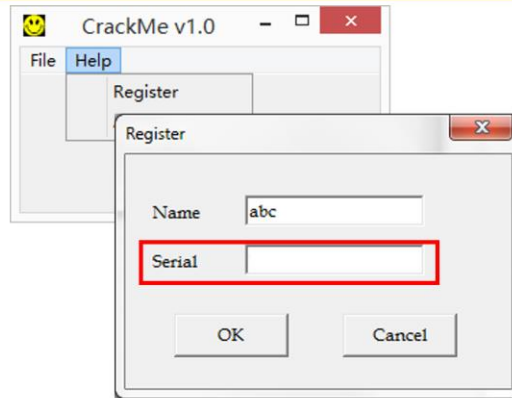
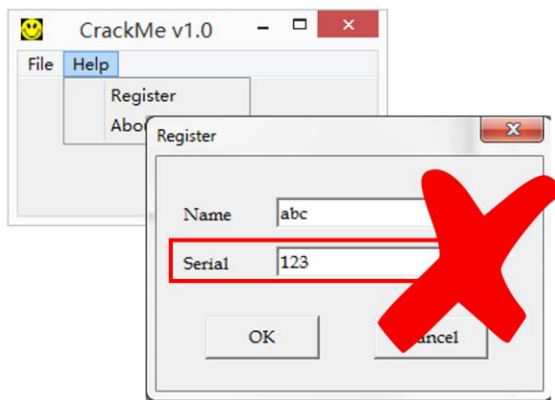
Message (b)

- Crack Me (HW3-Q1): When you input the Name and Serial, the CRACKME.EXE will compute whether the name-serial pair is valid: if the serial doesn't match the name the user input, it will pop up the Message (a) shown above; otherwise, it pops up Message (b). Use Ollydbg to analyze the given CRACKME.EXE and accordingly modify the binary to make it pop up the message (b) no matter what name-serial pairs you input. (Due date: 10/29/2019, 11:59pm)

Q2: See detailed description below. (35pts)



Crack Me!



- Do not modify any code of given *CRACKME.exe*, but use Ollydbg to analyze the binary to get its "secret": how to generate a serial for any input name? 1) You need to first input your first name and generate the corresponding serial; 2) the TA will give another names and you need to generate the corresponding serials; 3) Please provide your solutions along with your detailed analysis (i.e., algorithm) regarding how to generate the serial of any input name. (Due date: 10/29/2019, 11:59pm)