

## Assignment: Malware Analysis #2

**Due:** 11:59PM March 7<sup>th</sup>, 2013

Late penalty is 10% per day.

You may do this alone or with a partner. I recommend doing it with a partner. I also recommend not trying to complete this in a single night. You should work at it a little each day. You have about 11 days.

This assignment is a “crackme” similar to the one we did in class. I have included roughly 7 separate challenges to overcome within this assignment. I say roughly 7 because some challenges overlap, so it is hard to quantify. We have covered all the material necessary to complete this assignment. It will require the knowledge you already have and some creativity and dedication.

To get full credit for this assignment, you are to document each challenge and how you overcame it. Although the ultimate goal is to write a key generator, just turning in a key generator will not get any points. You must document the challenges and solutions, and in addition turn in a key generator. The key generator may be in a language of your choice. The actual key generation algorithm is nothing complex. It is somewhat trivial, similar to the algorithm covered in the crackme in class. If you are not able to reach the point in which you can write a key generator, you may still receive the majority of points if you have documented the challenges and solutions you have completed up to that point. If you cannot find a solution, at least document the challenge that you are presented with.

### Sample runs:



```
C:\WINDOWS\system32\cmd.exe

C:\>Crackme.exe
Enter name: jeremy
Enter serial: 929298
Successful!
C:\>Crackme.exe
Enter name: steven
Enter serial: 123456
Failure!
C:\>Crackme.exe
Enter name: AAAAAA
Enter serial: 121296
Successful!
C:\>Crackme.exe
Enter name: lynxjerm
Enter serial: 1234567
Failure!
C:\>Crackme.exe
Enter name: lynxjerm
Enter serial: 92907261
Successful!
C:\>_
```

**Submission:**

- 1) Email subject: "Malware Analysis Report 2"
- 2) Attached: 1 zip file, in the following format lastName\_firstName.zip, optionally with partners it would be lastName\_firstName\_lastName\_firstName.zip
- 3) Zip file:
  - a. 1 PDF containing challenges + solutions (90% of assignment grade)
  - b. 1 source code for key generator (10% of assignment grade)
  - c. 1 executable for key generator