Hanna Rakhsha h\_r77 CS 4371 – Gu Homework 3

- 1(a) This is a discretionary system. The creator is the user. The owner of the file (object) is the user. The system is Linux. The admin of the system is the root user of the system. The users and the root can decide permission.
- (b) This is an originator system. The creator is the software's author. The owner of the software packages (object) is the author. The system is the software repository. The software author is the admin of the system and decides permissions.
- (c) This is a mandatory system. The creator is the NSA. The owner of the database (object) is the NSA. The system is the database. The admin of the system is the NSA, who also decides permissions.
- 2(a) Paul cannot read or write the document. Paul can only read and write a document with (Top Secret{A, C}) classification.
  - (b) Anna cannot read or write the document. Anna can only read and write a document with (Confidential, {C}) classification.
- (c) Jesse can only read the document. Jesse can write to a document with (Top Secret, {C})classification.
- (d) Sammie can only read the document. Sammie can write (and read) a document with (Top Secret, {A, C}).
- (e) Robin cannot read the document. Robin can read (and write) a document with (Unclassified, {B}) classification.

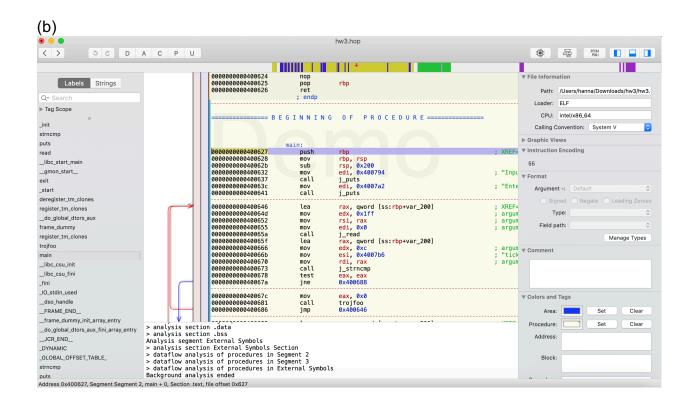
3.

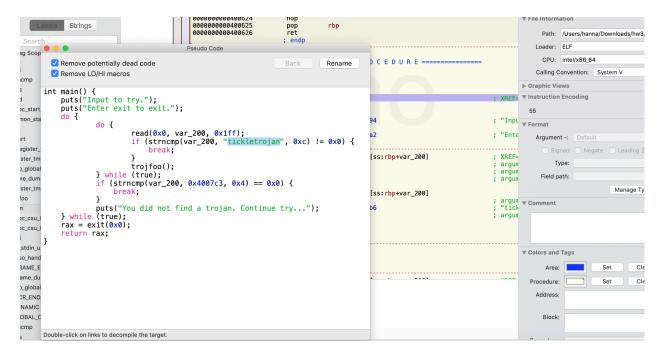
	TS	S	С	UC
TS	rw			-
S		rw		
С			rw	
UC				rw

- 4(a) 249346712
  - (b) 3989547392
  - (c) X = 1333/7

5(a)

```
[[h_r77@eros Homework3]$ chmod +x hw3.eq5
[[h_r77@eros Homework3]$ ./hw3.eq5
Input to try.
Enter exit to exit.
```





```
(C) [[h_r77@eros Homework3]$ ./hw3.eq5
Input to try.
Enter exit to exit.
[tickletrojan
You found a trojan named "homework trojan". It does nothing though.
```

```
6(a)
```

```
[Hannas-MacBook-Pro:Homework hanna$ python homework3.py
[+] Opening connection to 127.0.0.1 on port 13131: Done
/bin/sh: 0:
can't access tty; job control turned off
[*] Closed connection to 127.0.0.1 port 13131
Hannas-MacBook-Pro:Homework hanna$
```

(b)

```
Super Smash Bros - 60 Exploit - Solved
```

```
[Hannas-MacBook-Pro:Homework hanna$ python homework3.py
[+] Opening connection to 127.0.0.1 on port 13131: Done
/bin/sh: 0:
can't access tty; job control turned off

$
FLAG{Buff3R_0v3rF1oW}

[*] Closed connection to 127.0.0.1 port 13131
Hannas-MacBook-Pro:Homework hanna$
```

7

```
Droid-50

[Hannas-MacBook-Pro:Homework hanna$ python homework3.py flag_wait_wasnt_it_dalvik
```

Hannas-MacBook-Pro:Homework hanna\$