

Part 1

Q1. Look at the data on the file system (Click on Data Sources and look at the hex values on the right). The file system has no files, but why are we able to find items on the disk image? Explain why the file system has no files but there are items that can be found on the disk image.

ANS เมื่อผู้ใช้ส่งลับไฟล์ระบบปฏิบัติการจะดำเนินการเพียงแค่ ลบหรือทำลาย Metadata และรายงานว่าพื้นที่ดังกล่าวเป็นพื้นที่ที่ยังไม่ได้ใช้ ซึ่งการลบข้อมูลเมต้าไม่ได้หมายความว่าระบบจะ ลบเนื้อหาไฟล์ (File Content) จริงๆ ที่อยู่ในเซกเตอร์ดิสก์ ทันที ข้อมูลดิบของไฟล์ยังคงอยู่บนดิสก์ในพื้นที่ที่ถูกทำเครื่องหมายว่าเป็น "ว่าง" จนกว่าจะมีไฟล์ใหม่ถูกเขียนทับลงไป

Q2. How many objects can you find?

ANS 14

Q3. List all the objects here and report on whether or not the content is accessible

or damaged/corrupted. Also note which files were actually already deleted.

(open as logical file and read only text)

ANS can open only image and text file. Voice file cannot be opened in autopsy but can in external

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known
f0023981_wword60.zip				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	78899	Unallocated	Unallocated	unknown
f0023957.ppt				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	11264	Unallocated	Unallocated	unknown
f0021929.wmv				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	1036994	Unallocated	Unallocated	unknown
f0020853_moon.mov				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	550653	Unallocated	Unallocated	unknown
f0020841.gif				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	5498	Unallocated	Unallocated	unknown
f0020645.jpg				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	99256	Unallocated	Unallocated	unknown
f0019777.jpg				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	444314	Unallocated	Unallocated	unknown
f0019771.jpg				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	29885	Unallocated	Unallocated	unknown
f0019477.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	122434	Unallocated	Unallocated	unknown
f0016741_Pudent_Engineering_Practice_for_Crypto_v				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	1399508	Unallocated	Unallocated	unknown
f0016693.xls				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	23040	Unallocated	Unallocated	unknown
f0016021.wav				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	318894	Unallocated	Unallocated	unknown
f0000321.wmv				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	8037267	Unallocated	Unallocated	unknown
f0000281_Nick_is_a.pretty_man_with_a.2003_docur				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	19968	Unallocated	Unallocated	unknown

The thumbnail view below the table shows a grayscale image of a shark swimming in water.

Q4. Think securely: If we want to delete files on a magnetic hard disk and not have them be recovered by any tool, what do we need to do? And how much time do you think you need to wipe a 1TB magnetic hard disk?

ANS การเขียนทับอย่างน้อย 7 รอบ ประมาณ 14 ชั่วโมง หรือใช้แม่เหล็กแรงๆ ในแม่กาวนาที

Q5. Will file carving be able to recover deleted files on an SSD? Why or why not?

ANS ไม่สามารถคืนได้ หรือทำได้ยากมาก SSD ใช้คำสั่ง TRIM หรือ UNMAP ซึ่ง คอนโทรลเลอร์ SSD จะตอบสนองโดยการฟังข้อมูลจริง

Part2

1. List all directories that were traversed in 'RM#2'.

ANS proposal, progress, design, PRICIN~1, TECHNI~1

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known	Location
wat.gif				2013-05-07 15:12:28 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:37 ICT	32166	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
tomatoes.gif				2013-05-07 15:10:50 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:37 ICT	2240548	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
tapas.gif				2013-05-07 15:11:10 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:36 ICT	2242264	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
proposal				2015-03-24 09:54:54 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:44 ICT	4096	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
progress				2015-03-24 09:54:54 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:43 ICT	4096	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
pisa.JPG				2005-04-10 09:49:04 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:35 ICT	847709	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
orchid.png				2013-01-22 14:30:24 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:33 ICT	845527	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
oak-snow.jpg				2010-01-24 15:45:00 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:32 ICT	1370140	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
leaf.jpg				2010-01-24 15:44:20 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:32 ICT	798064	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
jump.jpg				2013-03-17 18:01:24 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:30 ICT	170580	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
injera.gif				2013-05-07 15:10:20 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:30 ICT	34480	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
eggs.gif				2013-01-22 14:21:36 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:32 ICT	2284125	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
desktop.ini				2015-03-24 15:51:48 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 15:51:47 ICT	129	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
design				2015-03-24 09:57:14 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:26 ICT	4096	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
cake.png				2013-01-22 14:20:38 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:27 ICT	8182655	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
cactus.png				2013-01-22 14:19:20 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:22 ICT	6164389	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles
houmous.hmm				2013-05-07 14:49:44 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:20 ICT	6790178	Unallocated	Unallocated	unknown	/img_cfreds_2015_data_leakage_rm#2.dd/vol_voi2/\$OrphanFiles

2. List all files that were opened in 'RM#2'.

ANS winter_storm.amr, winter WHETHER_advisory.zip,....

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	
winter_storm.amr				2015-01-23 16:47:10 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:27 ICT	14547968	Unallocated	Unallocate	
wat.gif				2013-05-07 15:12:28 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:37 ICT	32166	Unallocated	Unallocate	
tomatoes.gif				2013-05-07 15:10:50 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:37 ICT	2240548	Unallocated	Unallocate	
tapas.gif				2013-05-07 15:11:10 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:36 ICT	2242264	Unallocated	Unallocate	
super_bowl.avi				2014-12-02 13:28:58 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:40 ICT	10289152	Unallocated	Unallocate	
proposal				2015-03-24 09:55:18 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:44 ICT	4096	Unallocated	Unallocate	
progress				2015-03-24 09:54:54 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:43 ICT	4096	Unallocated	Unallocate	
pisa.JPG				2005-04-10 09:49:04 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:35 ICT	847709	Unallocated	Unallocate	
orchid.png				2013-01-22 14:30:24 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:33 ICT	845527	Unallocated	Unallocate	
oak-snow.jpg				2010-01-24 15:45:00 ICT	0000-00-00 00:00:00	2015-03-23 00:00:00 ICT	2015-03-23 16:55:32 ICT	1370140	Unallocated	Unallocate	
new_years.day.jpg				2014-12-01 14:50:26 ICT	0000-00-00 00:00:00	2015-03-24 00:00:00 ICT	2015-03-24 09:59:39 ICT	10237535	Unallocated	Unallocate	

3. Recover deleted files from USB drive 'RM#2'. What files were you able to recover?

ANS

2 - Autopsy 4.22.1

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Listing All

Table Thumbnail Summary

Save Table as CSV

Name S C O Modified Time Change Time Access Time Created Time Size Flags(Dir) Flags(Meta) Know

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Know
f0393960.bmp	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	8798374	Unallocated	Unallocated	unkno
f0389800.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	3352929	Unallocated	Unallocated	unkno
f0383240.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	6717692	Unallocated	Unallocated	unkno
f0370088.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	921654	Unallocated	Unallocated	unkno
f0368264.bmp	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	2048	Unallocated	Unallocated	unkno
f0368232.fat	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	15209466	Unallocated	Unallocated	unkno
f0338504.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	885072	Unallocated	Unallocated	unkno
f0336744.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	15209466	Unallocated	Unallocated	unkno
f0327048.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	4949421	Unallocated	Unallocated	unkno
f0325864_skip.mov	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	590588	Unallocated	Unallocated	unkno
f0306760_skip.mov	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	9773451	Unallocated	Unallocated	unkno
f0300712.wmv	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	3085265	Unallocated	Unallocated	unkno

Hex Text Application File Metadata OS Account Data Artifacts Analysis Results Context Annotations Other Occurrences

Tags Menu

0% 14% Reset

03/30/2013

2 - Autopsy 4.22.1

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Listing All

Table Thumbnail Summary

Save Table as CSV

Name S C O Modified Time Change Time Access Time Created Time Size Flags(Dir) Flags(Meta) Know

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Know
f0393960.bmp	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	8798374	Unallocated	Unallocated	unkno
f0389800.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	2125114	Unallocated	Unallocated	unkno
f0383240.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	3352929	Unallocated	Unallocated	unkno
f0370088.gif	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	6717692	Unallocated	Unallocated	unkno
f0368264.bmp	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	921654	Unallocated	Unallocated	unkno
f0368232.fat	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	2048	Unallocated	Unallocated	unkno
f0338504.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	885072	Unallocated	Unallocated	unkno
f0336744.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	15209466	Unallocated	Unallocated	unkno
f0327048.mp4	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	4949421	Unallocated	Unallocated	unkno
f0325864_skip.mov	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	590588	Unallocated	Unallocated	unkno
f0306760_skip.mov	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	9773451	Unallocated	Unallocated	unkno
f0300712.wmv	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	3085265	Unallocated	Unallocated	unkno

Hex Text Application File Metadata OS Account Data Artifacts Analysis Results Context Annotations Other Occurrences

Unknown/Unknown

Playback of deleted videos is not supported, use an external player.

Spee... 1x

4. What actions were performed for anti-forensics on USB drive ‘RM#2’?

[Hint: this can be inferred from the results of the above question]

ANS หักมีการพยายามลบหลักฐานทิ้ง และ มีการปิดคอมแม่พลาฟอร์แมตไฟล์ สังเกตว่า มีชื่อไฟล์แปลงที่ตั้งชื่อลงท้ายด้วย .txt แต่เนื้อหาข้างในไม่น่าใช่ จึงลองเปลี่ยน TYPE เป็น .ppt

5. Recover hidden files from the CD-R ‘RM#3’. What files were you able to

recover?

ANS found 15 files

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known
f0208644.jpg	0	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	620888	Unallocated	Unallocated	uninc
f0207124.jpg	0	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	777835	Unallocated	Unallocated	uninc
f0205596.jpg	0	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	780831	Unallocated	Unallocated	uninc
f0204148_secret_project_technical_review_3.ppt	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	325120	Unallocated	Unallocated	uninc
f0199536_secret_project_technical_review_3.doc	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	2360832	Unallocated	Unallocated	uninc
f0198632.xml	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	1531	Unallocated	Unallocated	uninc
f0113264.docx	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	27414	Unallocated	Unallocated	uninc
f0104588.docx	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	440235	Unallocated	Unallocated	uninc
f0104472_secret_project_progress_3.doc	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	57344	Unallocated	Unallocated	uninc
f0084376_secret_project_market_shares.xls	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	10289152	Unallocated	Unallocated	uninc
f0064380.xlsx	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	10237535	Unallocated	Unallocated	uninc
f0064184.xlsx	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	100078	Unallocated	Unallocated	uninc
f0061720_secret_project_price_analysis_2.xls	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	1260544	Unallocated	Unallocated	uninc
f0029724.pptx	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	16381123	Unallocated	Unallocated	uninc
f0001308_secret_project_revised_points.ppt	2	0	0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	14547968	Unallocated	Unallocated	uninc

6. What actions were performed for anti-forensics (data hiding) on CD-R

‘RM#3’?

ANS นำจะแค่ลบไฟล์ทำลายหลักฐานทิ้ง