Lab 1 Project

Student ID: 11647576

Data acquisition in ProDiscover:

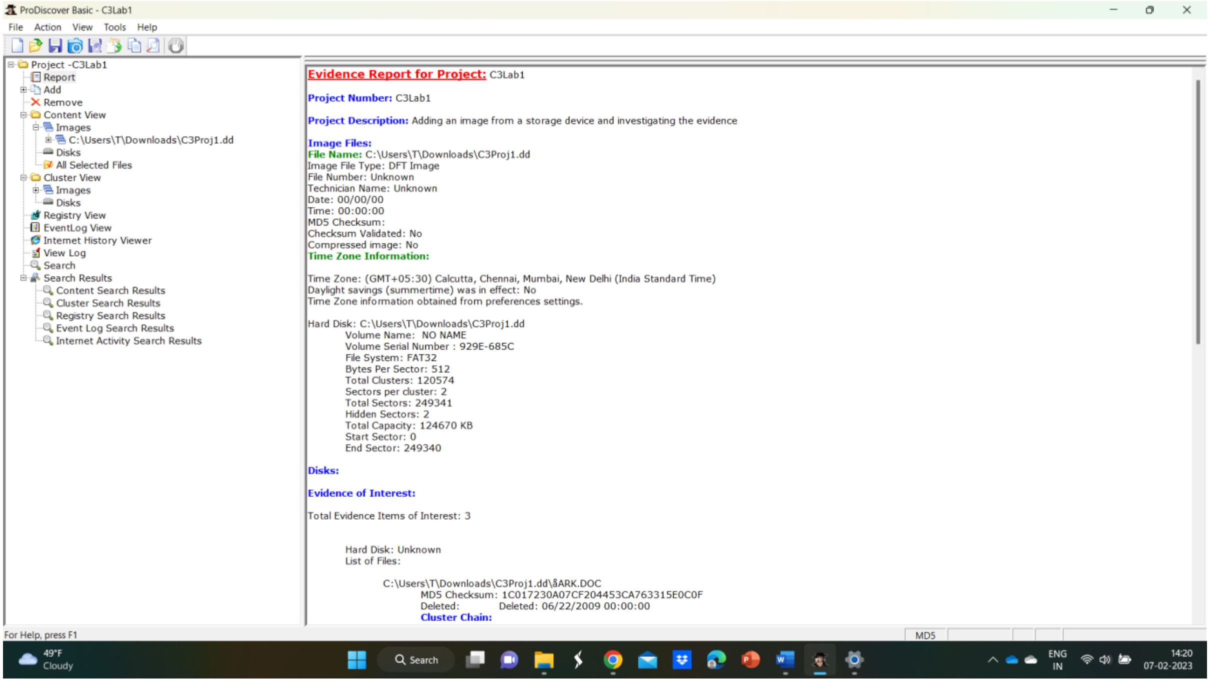
a. What is the file system used in this image?
   FAT32

b. What is the time zone where this image was located?
   GMT+05:30 (IST)

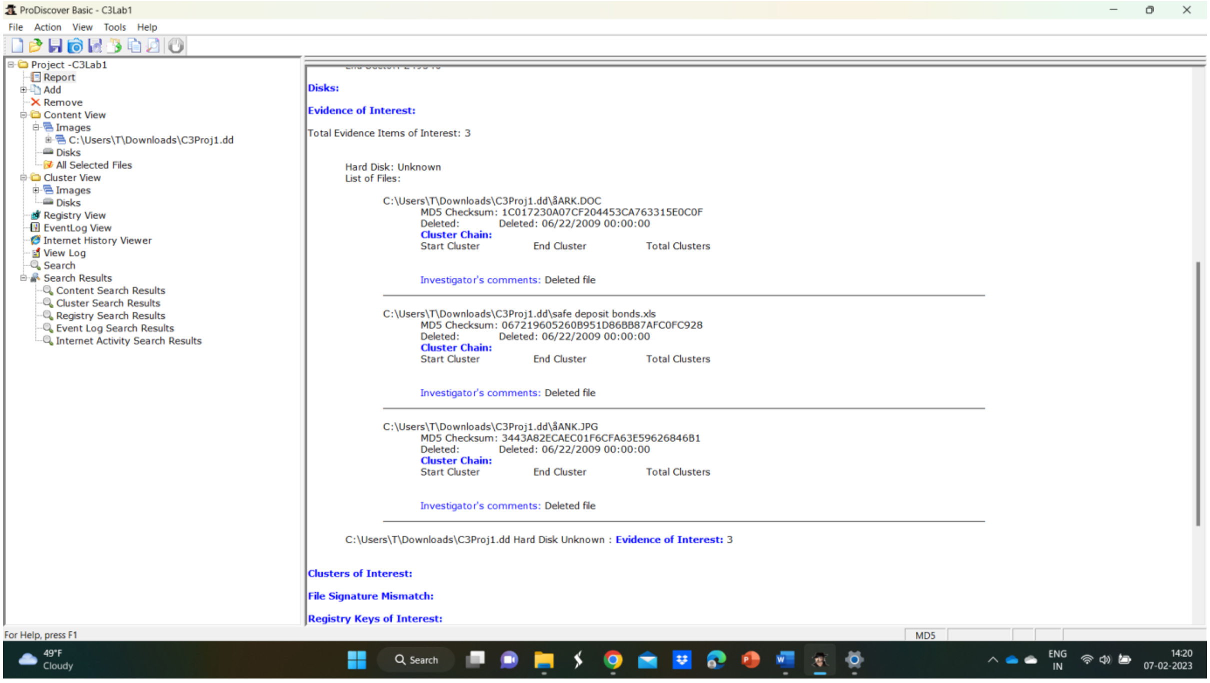
c. What is the total number of clusters contained in this image?
   120574

d. How many hidden sectors are contained in this image?
   2

e. On what date were the three files deleted?
   06/22/2009



```
Evidence Report for Project: C3Lab1

Project Number: C3Lab1

Project Description: Adding an image from a storage device and investigating the evidence

Image Files:
File Name: C:\Users\T\Downloads\C3Proj1.dd
Image File Type: DFT Image
File Number: Unknown
Technician Name: Unknown
Date: 00/00/00
Time: 00:00:00
MD5 Checksum:
Checksum Validated: No
Compressed image: No
Time Zone Information:

Time Zone: (GMT+05:30) Calcutta, Chennai, Mumbai, New Delhi (India Standard Time)
Daylight savings (summertime) was in effect: No
Time Zone information obtained from preferences settings.

Hard Disk: C:\Users\T\Downloads\C3Proj1.dd
        Volume Name:  NO NAME
        Volume Serial Number : 929E-685C
        File System: FAT32
        Bytes Per Sector: 512
        Total Clusters: 120574
        Sectors per cluster: 2
        Total Sectors: 249341
        Hidden Sectors: 2
        Total Capacity: 124670 KB
        Start Sector: 0
        End Sector: 249340

Disks:

Evidence of Interest:

Total Evidence Items of Interest: 3


        Hard Disk: Unknown
        List of Files:

                C:\Users\T\Downloads\C3Proj1.dd\åARK.DOC
                        MD5 Checksum: 1C017230A07CF204453CA763315E0C0F
                        Deleted:          Deleted: 06/22/2009 00:00:00
                        Cluster Chain:
```



```
Disks:

Evidence of Interest:

Total Evidence Items of Interest: 3


      Hard Disk: Unknown
      List of Files:

            C:\Users\T\Downloads\C3Proj1.dd\åARK.DOC
                  MD5 Checksum: 1C017230A07CF204453CA763315E0C0F
                  Deleted:        Deleted: 06/22/2009 00:00:00
                  Cluster Chain:
                  Start Cluster          End Cluster          Total Clusters


                  Investigator's comments: Deleted file
            ________________________________________________________________

            C:\Users\T\Downloads\C3Proj1.dd\safe deposit bonds.xls
                  MD5 Checksum: 067219605260B951D86BB87AFC0FC928
                  Deleted:        Deleted: 06/22/2009 00:00:00
                  Cluster Chain:
                  Start Cluster          End Cluster          Total Clusters


                  Investigator's comments: Deleted file
            ________________________________________________________________

            C:\Users\T\Downloads\C3Proj1.dd\åANK.JPG
                  MD5 Checksum: 3443A82ECAEC01F6CFA63E59626846B1
                  Deleted:        Deleted: 06/22/2009 00:00:00
                  Cluster Chain:
                  Start Cluster          End Cluster          Total Clusters


                  Investigator's comments: Deleted file
            ________________________________________________________________

      C:\Users\T\Downloads\C3Proj1.dd Hard Disk Unknown : Evidence of Interest: 3

Clusters of Interest:

File Signature Mismatch:

Registry Keys of Interest:
```

Viewing an NTFS Image in ProDiscover:

f. What is the total number of clusters contained in this image?
31487

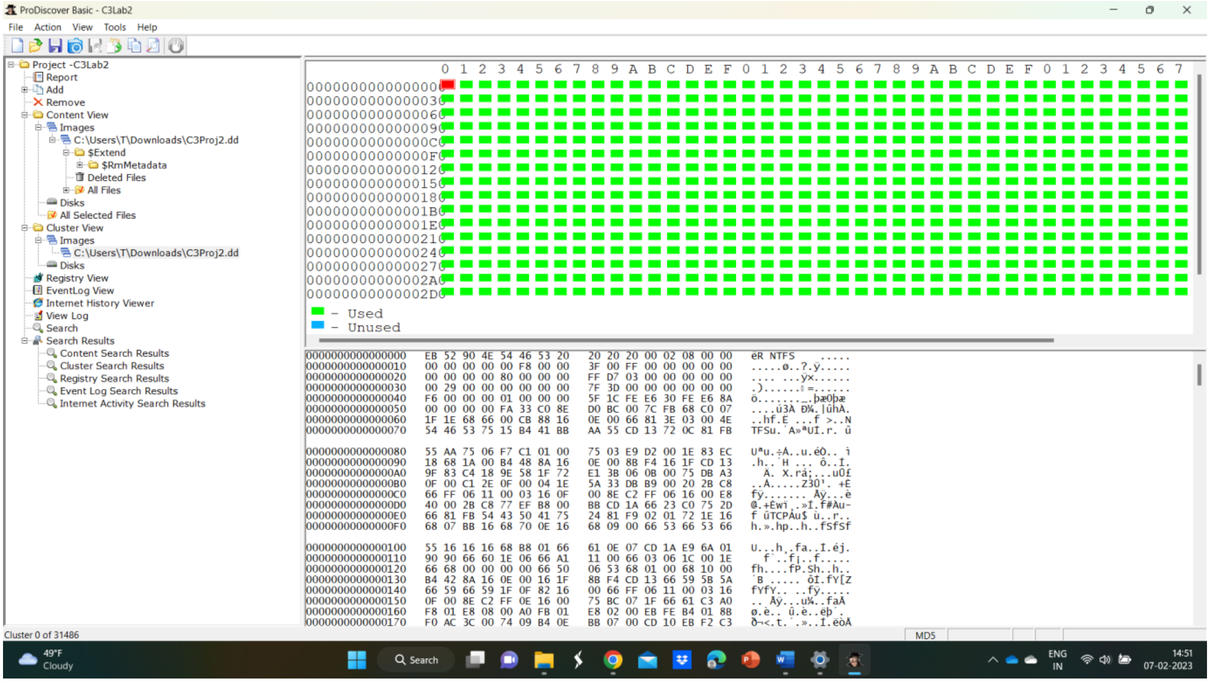
g. What is the total size of this storage device in kilobytes?
125951KB

h. How many clusters did deleted MS Word document occupy in image?
8

i. What time was the bank.jpg file deleted?

10:59:14

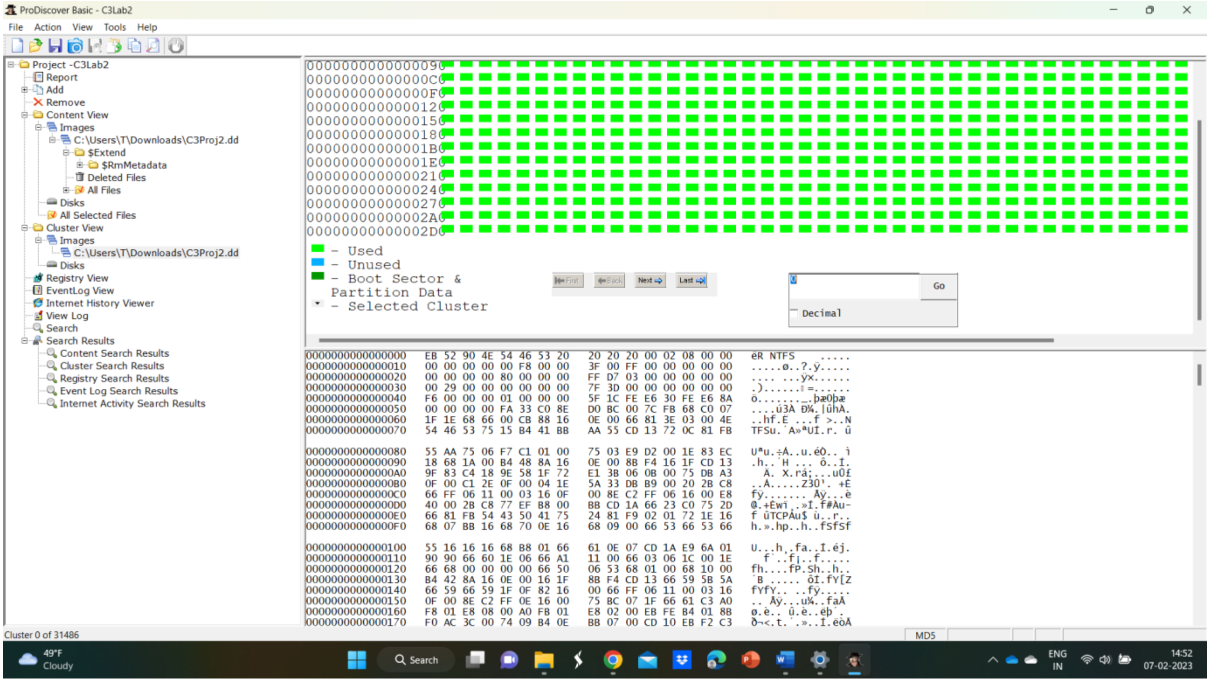
i. How many sectors are contained in each cluster?
8



```
                 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7 8 9 A B C D E F 0 1 2 3 4 5 6 7
0000000000000000
0000000000000030
0000000000000060
0000000000000090
00000000000000C0
00000000000000F0
0000000000000120
0000000000000150
0000000000000180
00000000000001B0
00000000000001E0
0000000000000210
0000000000000240
0000000000000270
00000000000002A0
00000000000002D0
```

🟩 - Used
🟦 - Unused

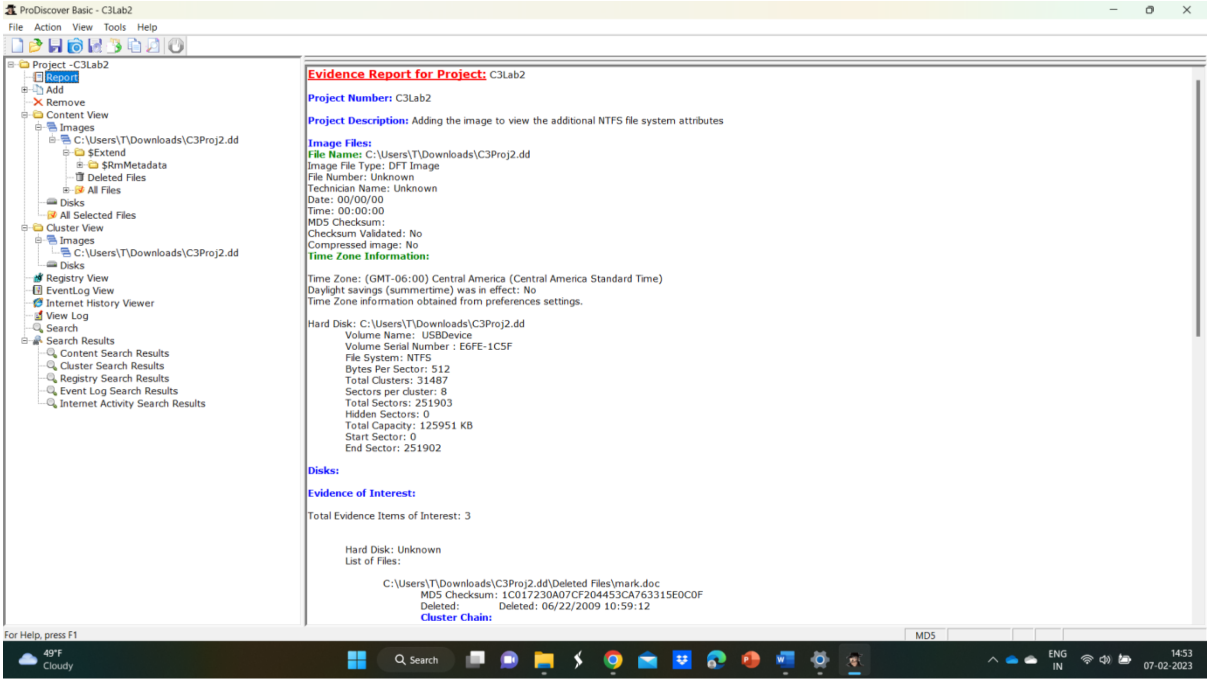
```
0000000000000000   EB 52 90 4E 54 46 53 20   20 20 20 00 02 08 00 00   ëR NTFS    .....
0000000000000010   00 00 00 00 00 F8 00 00   3F 00 FF 00 00 00 00 00   .....ø..?.ÿ.....
0000000000000020   00 00 00 00 80 00 00 00   FF D7 03 00 00 00 00 00   .... ...ÿ×......
0000000000000030   00 29 00 00 00 00 00 00   7F 3D 00 00 00 00 00 00   .)......=......
0000000000000040   F6 00 00 00 01 00 00 00   5F 1C FE E6 30 FE E6 8A   ö......._.þæ0þæ
0000000000000050   00 00 00 00 FA 33 C0 8E   D0 BC 00 7C FB 68 C0 07   ....ú3À Ð¼.|ûhÀ.
0000000000000060   1F 1E 68 66 00 CB 88 16   0E 00 66 81 3E 03 00 4E   ..hf.Ë ...f >..N
0000000000000070   54 46 53 75 15 B4 41 BB   AA 55 CD 13 72 0C 81 FB   TFSu.´A»ªUÍ.r. û

0000000000000080   55 AA 75 06 F7 C1 01 00   75 03 E9 D2 00 1E 83 EC   Uªu.÷Á..u.éÒ.. ì
0000000000000090   18 68 1A 00 B4 48 8A 16   0E 00 8B F4 16 1F CD 13   .h..´H ... ô..Í.
00000000000000A0   9F 83 C4 18 9E 58 1F 72   E1 3B 06 0B 00 75 DB A3    Ä. X.rá;...uÛ£
00000000000000B0   0F 00 C1 2E 0F 00 04 1E   5A 33 DB B9 00 20 2B C8   ..Á.....Z3Û¹. +È
00000000000000C0   66 FF 06 11 00 03 16 0F   00 8E C2 FF 06 16 00 E8   fÿ....... Âÿ...è
00000000000000D0   40 00 2B C8 77 EF B8 00   BB CD 1A 66 23 C0 75 2D   @.+Èwï¸.»Í.f#Àu-
00000000000000E0   66 81 FB 54 43 50 41 75   24 81 F9 02 01 72 1E 16   f ûTCPAu$ ù..r..
00000000000000F0   68 07 BB 16 68 70 0E 16   68 09 00 66 53 66 53 66   h.».hp..h..fSfSf

0000000000000100   55 16 16 16 68 B8 01 66   61 0E 07 CD 1A E9 6A 01   U...h¸.fa..Í.éj.
0000000000000110   90 90 66 60 1E 06 66 A1   11 00 66 03 06 1C 00 1E     f`..f¡..f.....
0000000000000120   66 68 00 00 00 00 66 50   06 53 68 01 00 68 10 00   fh....fP.Sh..h..
0000000000000130   B4 42 8A 16 0E 00 16 1F   8B F4 CD 13 66 59 5B 5A   ´B ..... ôÍ.fY[Z
0000000000000140   66 59 66 59 1F 0F 82 16   00 66 FF 06 11 00 03 16   fYfY.. ..fÿ.....
0000000000000150   0F 00 8E C2 FF 0E 16 00   75 BC 07 1F 66 61 C3 A0   .. Âÿ...u¼..faÃ 
0000000000000160   F8 01 E8 08 00 A0 FB 01   E8 02 00 EB FE B4 01 8B   ø.è.. û.è..ëþ´.
0000000000000170   F0 AC 3C 00 74 09 B4 0E   BB 07 00 CD 10 EB F2 C3   ð¬<.t.´.»..Í.ëòÃ
```



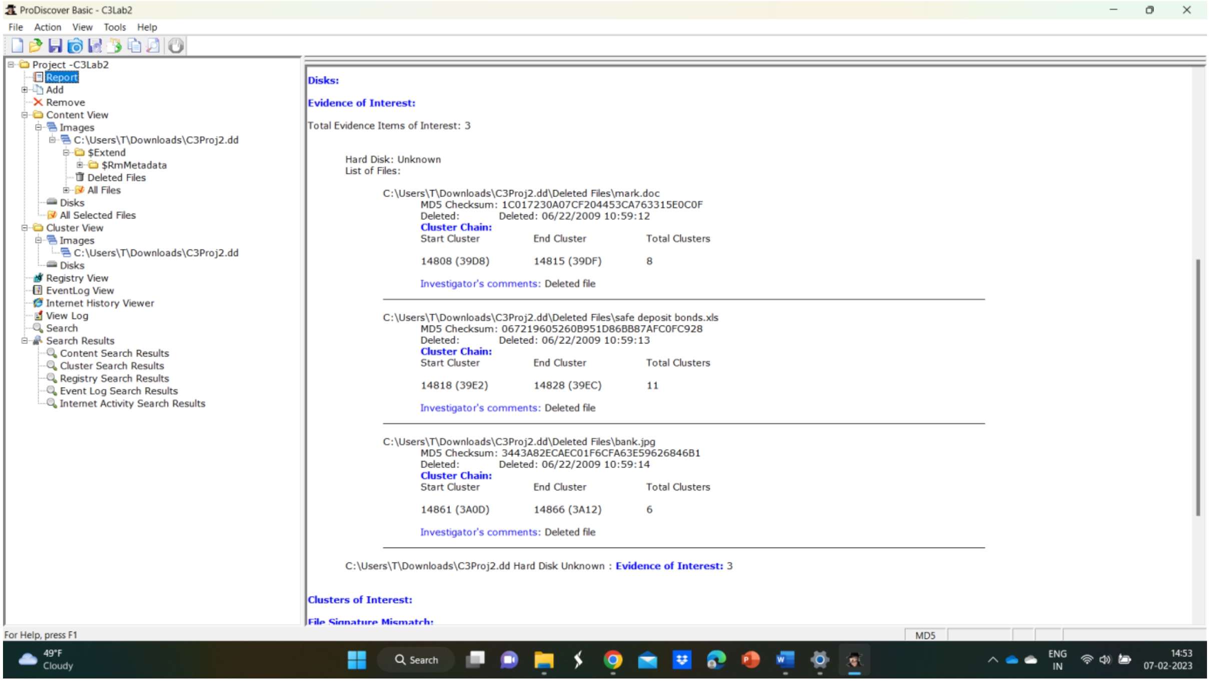
```
0000000000000090
00000000000000C0
00000000000000F0
0000000000000120
0000000000000150
0000000000000180
00000000000001B0
00000000000001E0
0000000000000210
0000000000000240
0000000000000270
00000000000002A0
00000000000002D0
```

🟩 - Used
🟦 - Unused
🟩 - Boot Sector & Partition Data
▾ - Selected Cluster

```
0000000000000000   EB 52 90 4E 54 46 53 20   20 20 20 00 02 08 00 00   ëR NTFS    .....
0000000000000010   00 00 00 00 00 F8 00 00   3F 00 FF 00 00 00 00 00   .....ø..?.ÿ.....
0000000000000020   00 00 00 00 80 00 00 00   FF D7 03 00 00 00 00 00   .... ...ÿ×......
0000000000000030   00 29 00 00 00 00 00 00   7F 3D 00 00 00 00 00 00   .)......=......
0000000000000040   F6 00 00 00 01 00 00 00   5F 1C FE E6 30 FE E6 8A   ö......._.þæ0þæ
0000000000000050   00 00 00 00 FA 33 C0 8E   D0 BC 00 7C FB 68 C0 07   ....ú3À Ð¼.|ûhÀ.
0000000000000060   1F 1E 68 66 00 CB 88 16   0E 00 66 81 3E 03 00 4E   ..hf.Ë ...f >..N
0000000000000070   54 46 53 75 15 B4 41 BB   AA 55 CD 13 72 0C 81 FB   TFSu.´A»ªUÍ.r. û

0000000000000080   55 AA 75 06 F7 C1 01 00   75 03 E9 D2 00 1E 83 EC   Uªu.÷Á..u.éÒ.. ì
0000000000000090   18 68 1A 00 B4 48 8A 16   0E 00 8B F4 16 1F CD 13   .h..´H ... ô..Í.
00000000000000A0   9F 83 C4 18 9E 58 1F 72   E1 3B 06 0B 00 75 DB A3    Ä. X.rá;...uÛ£
00000000000000B0   0F 00 C1 2E 0F 00 04 1E   5A 33 DB B9 00 20 2B C8   ..Á.....Z3Û¹. +È
00000000000000C0   66 FF 06 11 00 03 16 0F   00 8E C2 FF 06 16 00 E8   fÿ....... Âÿ...è
00000000000000D0   40 00 2B C8 77 EF B8 00   BB CD 1A 66 23 C0 75 2D   @.+Èwï¸.»Í.f#Àu-
00000000000000E0   66 81 FB 54 43 50 41 75   24 81 F9 02 01 72 1E 16   f ûTCPAu$ ù..r..
00000000000000F0   68 07 BB 16 68 70 0E 16   68 09 00 66 53 66 53 66   h.».hp..h..fSfSf

0000000000000100   55 16 16 16 68 B8 01 66   61 0E 07 CD 1A E9 6A 01   U...h¸.fa..Í.éj.
0000000000000110   90 90 66 60 1E 06 66 A1   11 00 66 03 06 1C 00 1E     f`..f¡..f.....
0000000000000120   66 68 00 00 00 00 66 50   06 53 68 01 00 68 10 00   fh....fP.Sh..h..
0000000000000130   B4 42 8A 16 0E 00 16 1F   8B F4 CD 13 66 59 5B 5A   ´B ..... ôÍ.fY[Z
0000000000000140   66 59 66 59 1F 0F 82 16   00 66 FF 06 11 00 03 16   fYfY.. ..fÿ.....
0000000000000150   0F 00 8E C2 FF 0E 16 00   75 BC 07 1F 66 61 C3 A0   .. Âÿ...u¼..faÃ 
0000000000000160   F8 01 E8 08 00 A0 FB 01   E8 02 00 EB FE B4 01 8B   ø.è.. û.è..ëþ´.
0000000000000170   F0 AC 3C 00 74 09 B4 0E   BB 07 00 CD 10 EB F2 C3   ð¬<.t.´.»..Í.ëòÃ
```



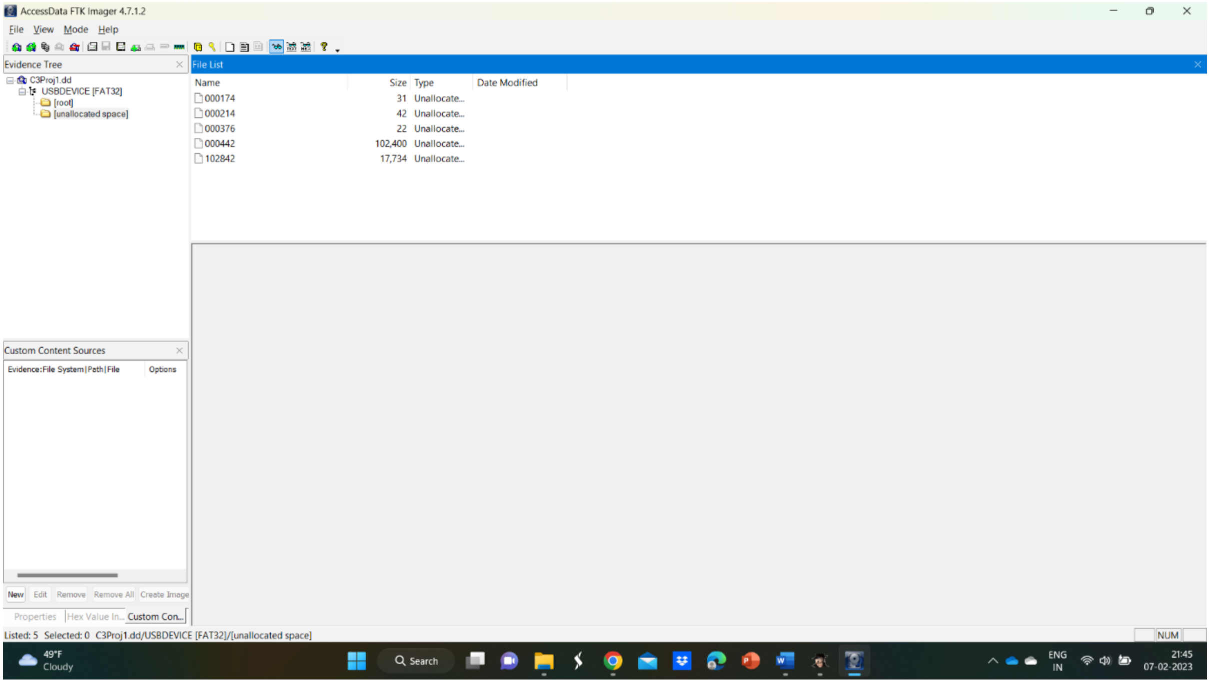
```
Evidence Report for Project: C3Lab2

Project Number: C3Lab2

Project Description: Adding the image to view the additional NTFS file system attributes

Image Files:
File Name: C:\Users\T\Downloads\C3Proj2.dd
Image File Type: DFT Image
File Number: Unknown
Technician Name: Unknown
Date: 00/00/00
Time: 00:00:00
MD5 Checksum:
Checksum Validated: No
Compressed image: No
Time Zone Information:

Time Zone: (GMT-06:00) Central America (Central America Standard Time)
Daylight savings (summertime) was in effect: No
Time Zone information obtained from preferences settings.

Hard Disk: C:\Users\T\Downloads\C3Proj2.dd
          Volume Name:  USBDevice
          Volume Serial Number : E6FE-1C5F
          File System: NTFS
          Bytes Per Sector: 512
          Total Clusters: 31487
          Sectors per cluster: 8
          Total Sectors: 251903
          Hidden Sectors: 0
          Total Capacity: 125951 KB
          Start Sector: 0
          End Sector: 251902

Disks:

Evidence of Interest:

Total Evidence Items of Interest: 3


          Hard Disk: Unknown
          List of Files:

                    C:\Users\T\Downloads\C3Proj2.dd\Deleted Files\mark.doc
                              MD5 Checksum: 1C017230A07CF204453CA763315E0C0F
                              Deleted:           Deleted: 06/22/2009 10:59:12
                              Cluster Chain:
```



```
Disks:

Evidence of Interest:

Total Evidence Items of Interest: 3


          Hard Disk: Unknown
          List of Files:

                    C:\Users\T\Downloads\C3Proj2.dd\Deleted Files\mark.doc
                              MD5 Checksum: 1C017230A07CF204453CA763315E0C0F
                              Deleted:           Deleted: 06/22/2009 10:59:12
                              Cluster Chain:
                              Start Cluster          End Cluster          Total Clusters

                              14808 (39D8)           14815 (39DF)         8

                              Investigator's comments: Deleted file
                    ------------------------------------------------------------------

                    C:\Users\T\Downloads\C3Proj2.dd\Deleted Files\safe deposit bonds.xls
                              MD5 Checksum: 067219605260B951D86BB87AFC0FC928
                              Deleted:           Deleted: 06/22/2009 10:59:13
                              Cluster Chain:
                              Start Cluster          End Cluster          Total Clusters

                              14818 (39E2)           14828 (39EC)         11

                              Investigator's comments: Deleted file
                    ------------------------------------------------------------------

                    C:\Users\T\Downloads\C3Proj2.dd\Deleted Files\bank.jpg
                              MD5 Checksum: 3443A82ECAEC01F6CFA63E59626846B1
                              Deleted:           Deleted: 06/22/2009 10:59:14
                              Cluster Chain:
                              Start Cluster          End Cluster          Total Clusters

                              14861 (3A0D)           14866 (3A12)         6

                              Investigator's comments: Deleted file
                    ------------------------------------------------------------------

          C:\Users\T\Downloads\C3Proj2.dd Hard Disk Unknown : Evidence of Interest: 3


Clusters of Interest:

File Signature Mismatch:
```

Viewing a FAT32 Image in FTK Imager

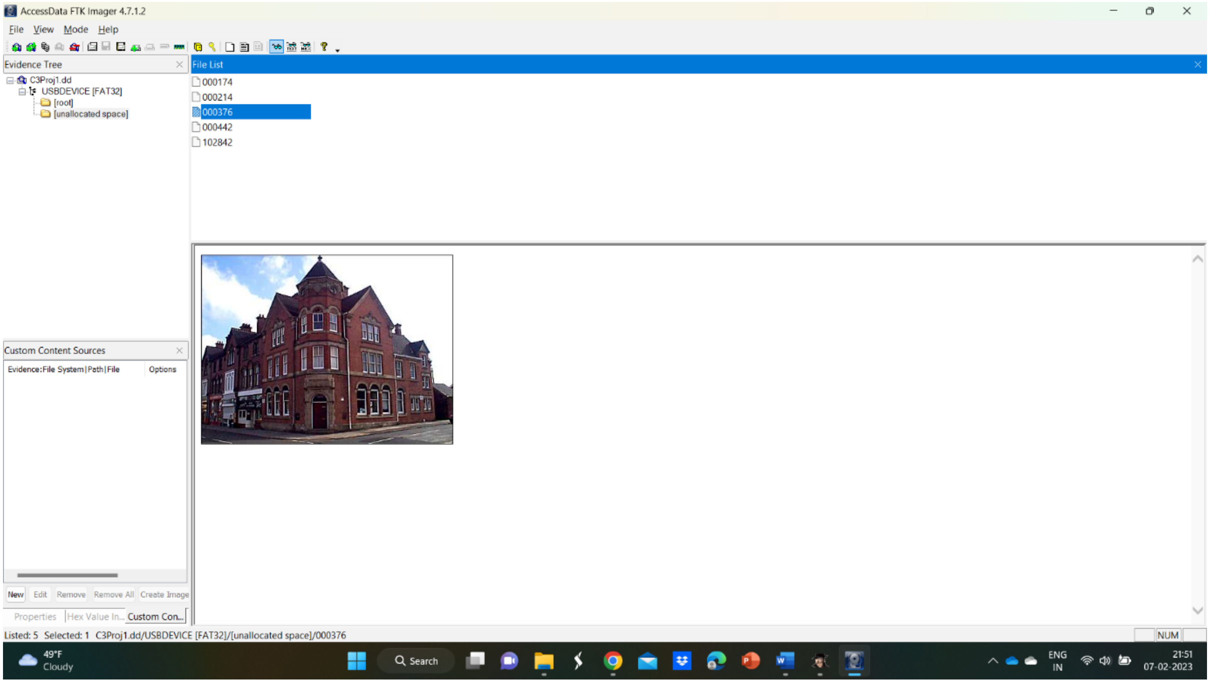
j. How many files of unallocated space are found in the folder?
5



Name	Size	Type	Date Modified
000174	31	Unallocate...	
000214	42	Unallocate...	
000376	22	Unallocate...	
000442	102,400	Unallocate...	
102842	17,734	Unallocate...	

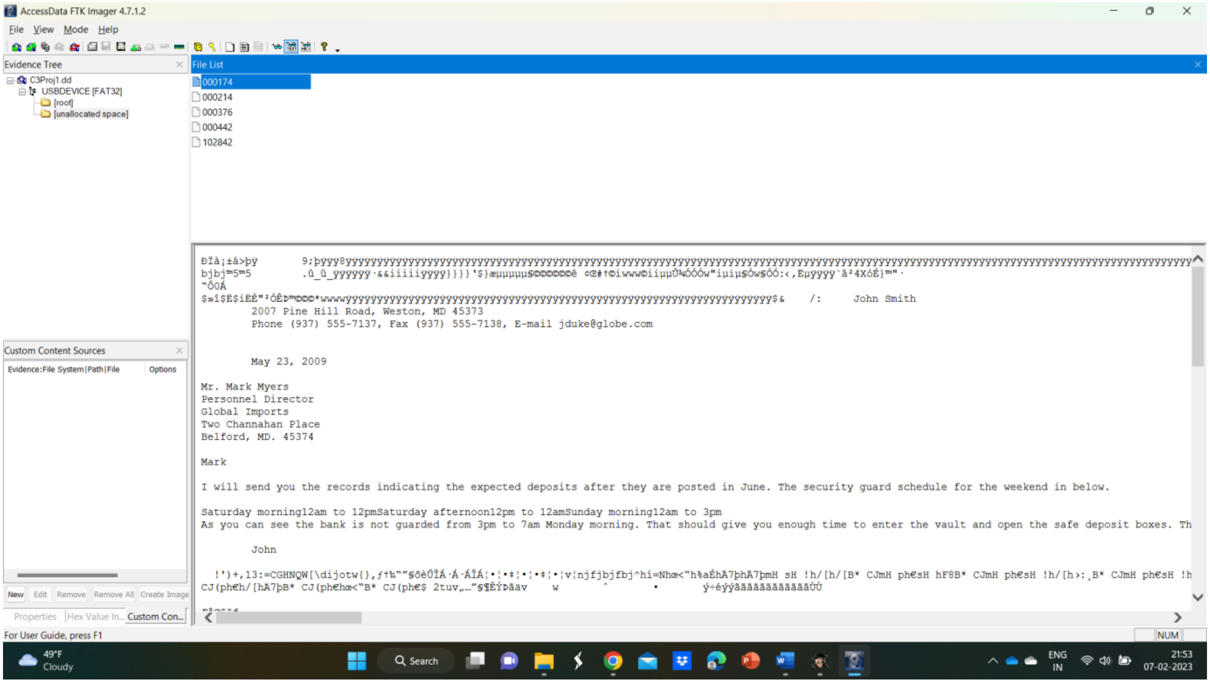
Listed: 5 Selected: 0 C3Proj1.dd/USBDEVICE [FAT32]/[unallocated space]

k. Which file contains a picture of a large building (i.e., a bank)?
000376



Listed: 5 Selected: 1 C3Proj1.dd/USBDEVICE [FAT32]/[unallocated space]/000376

l. Locate the **000174** file and then select the **TEXT Eyeglass** icon on the tool bar in FTK Imager to view unformatted text found in this file. Who is this document addressed to (full name)?
Mr. Mark Myers



```
ÐÏà¡±á>þÿ       9;þÿÿÿ8ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
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        2007 Pine Hill Road, Weston, MD 45373
        Phone (937) 555-7137, Fax (937) 555-7138, E-mail jduke@globe.com


        May 23, 2009

Mr. Mark Myers
Personnel Director
Global Imports
Two Channahan Place
Belford, MD. 45374

Mark

I will send you the records indicating the expected deposits after they are posted in June. The security guard schedule for the weekend in below.

Saturday morning12am to 12pmSaturday afternoon12pm to 12amSunday morning12am to 3pm
As you can see the bank is not guarded from 3pm to 7am Monday morning. That should give you enough time to enter the vault and open the safe deposit boxes. Th

        John

  !')+,13:=CGHNQW[\dijotw{},ƒ†‰"”§õèÛÎÁ·Á·ÁÎÁ¦•¦•‡¦•¦•‡¦•¦v¦njfjbjfbj^hí=Nhœ<"h‰aÊhÃ7þhÃ7þmH sH !h/[h/[B* CJmH ph€sH hF8B* CJmH ph€sH !h/[h>:¸B* CJmH ph€sH !h
CJ(ph€h/[hÃ7þB* CJ(ph€hœ<"B* CJ(ph€$ 2tuv„…"§¶ÊÝÞäãv    w      ˆ        •        ý÷éýÿãããããããããããããÙÙ
```
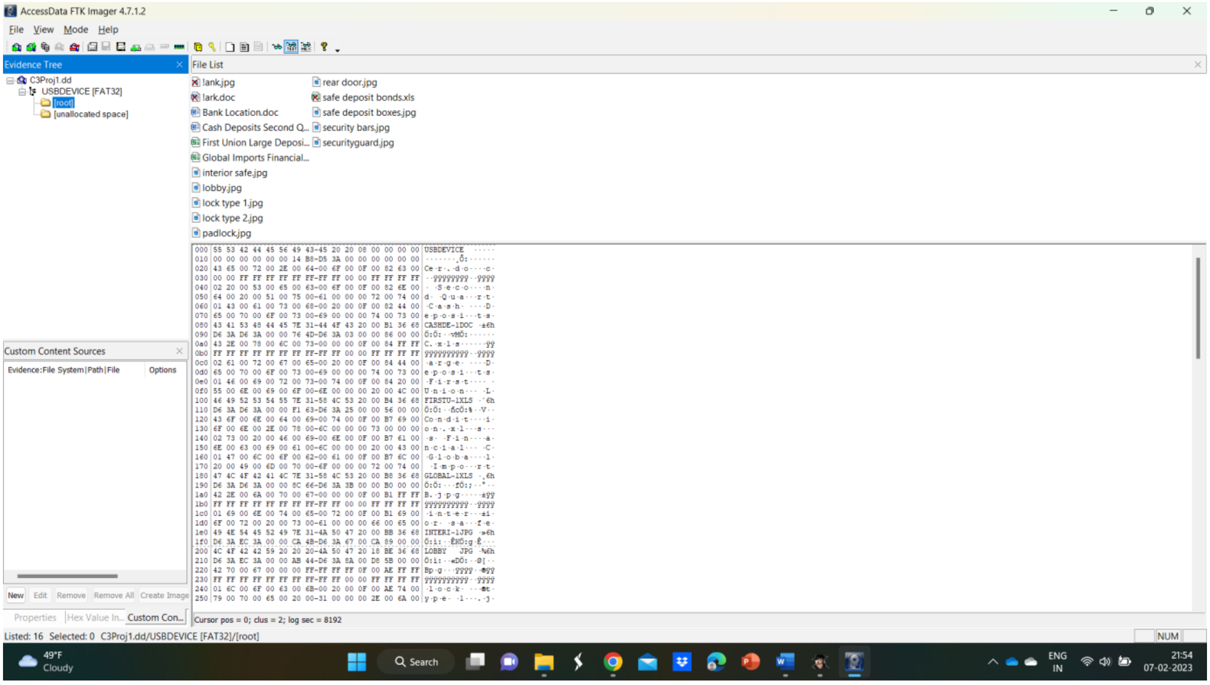

Examining the **[root]** folder:

m. Deleted files are shown with a red (or similar) X through the icon for the file type. How many deleted files are found in this folder?
3



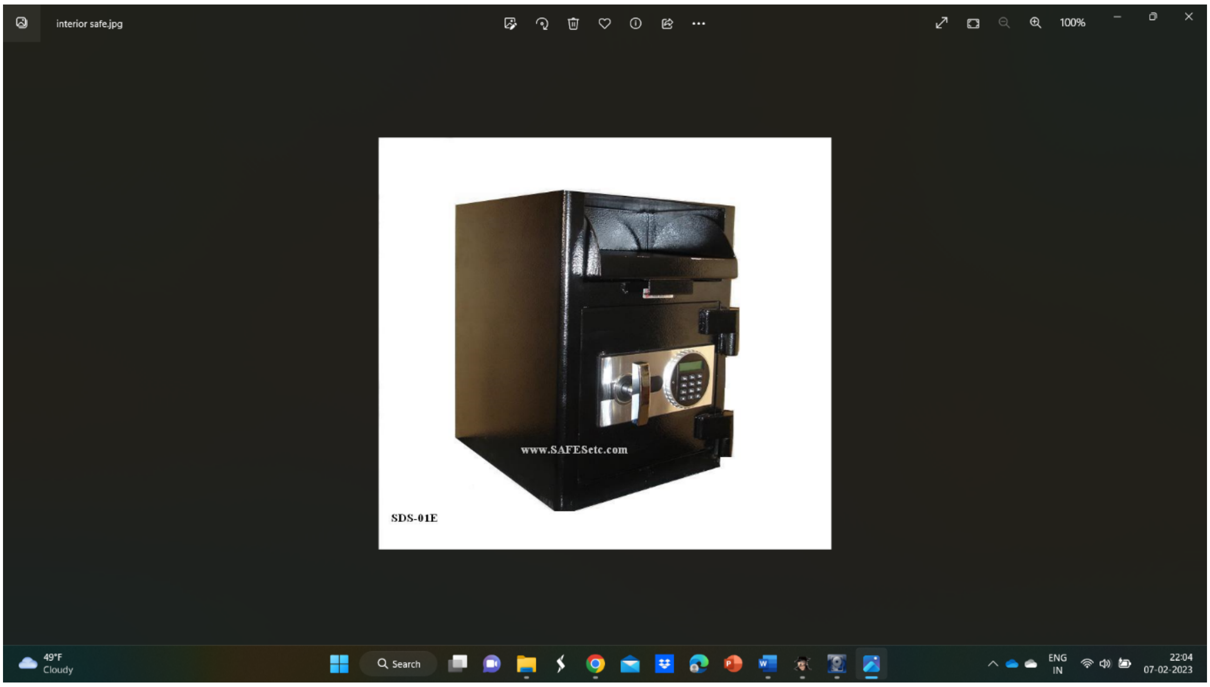
```
!ank.jpg                         rear door.jpg
!ark.doc                         safe deposit bonds.xls
Bank Location.doc                safe deposit boxes.jpg
Cash Deposits Second Q...        security bars.jpg
First Union Large Deposi...      securityguard.jpg
Global Imports Financial...
interior safe.jpg
lobby.jpg
lock type 1.jpg
lock type 2.jpg
padlock.jpg
```

```
000  55 53 42 44 45 56 49 43-45 20 20 08 00 00 00 00  USBDEVICE   ····
010  00 00 00 00 00 00 14 B8-D5 3A 00 00 00 00 00 00  ······¸Õ:······
020  43 65 00 72 00 2E 00 64-00 6F 00 0F 00 82 63 00  Ce·r·.·d·o···c·
030  00 00 FF FF FF FF FF FF-FF FF 00 00 FF FF FF FF  ··ÿÿÿÿÿÿÿÿ··ÿÿÿÿ
040  02 20 00 53 00 65 00 63-00 6F 00 0F 00 82 6E 00  · ·S·e·c·o···n·
050  64 00 20 00 51 00 75 00-61 00 00 00 72 00 74 00  d· ·Q·u·a···r·t·
060  01 43 00 61 00 73 00 68-00 20 00 0F 00 82 44 00  ·C·a·s·h· ····D·
070  65 00 70 00 6F 00 73 00-69 00 00 00 74 00 73 00  e·p·o·s·i···t·s·
080  43 41 53 48 44 45 7E 31-44 4F 43 20 00 B1 36 68  CASHDE~1DOC ·±6h
090  D6 3A D6 3A 00 00 76 4D-D6 3A 03 00 00 86 00 00  Ö:Ö:··vMÖ:······
0a0  43 2E 00 78 00 6C 00 73-00 00 00 0F 00 84 FF FF  C.·x·l·s······ÿÿ
0b0  FF FF FF FF FF FF FF FF-FF FF 00 00 FF FF FF FF  ÿÿÿÿÿÿÿÿÿÿ··ÿÿÿÿ
0c0  02 61 00 72 00 67 00 65-00 20 00 0F 00 84 44 00  ·a·r·g·e· ····D·
0d0  65 00 70 00 6F 00 73 00-69 00 00 00 74 00 73 00  e·p·o·s·i···t·s·
0e0  01 46 00 69 00 72 00 73-00 74 00 0F 00 84 20 00  ·F·i·r·s·t···· ·
0f0  55 00 6E 00 69 00 6F 00-6E 00 00 00 20 00 4C 00  U·n·i·o·n··· ·L·
100  46 49 52 53 54 55 7E 31-58 4C 53 20 00 B4 36 68  FIRSTU~1XLS ·´6h
110  D6 3A D6 3A 00 00 F1 63-D6 3A 25 00 00 56 00 00  Ö:Ö:··ñcÖ:%··V··
120  43 6F 00 6E 00 64 00 69-00 74 00 0F 00 B7 69 00  Co·n·d·i·t···i·
130  6F 00 6E 00 2E 00 78 00-6C 00 00 00 73 00 00 00  o·n·.·x·l···s···
140  02 73 00 20 00 46 00 69-00 6E 00 0F 00 B7 61 00  ·s· ·F·i·n···a·
150  6E 00 63 00 69 00 61 00-6C 00 00 00 20 00 43 00  n·c·i·a·l··· ·C·
160  01 47 00 6C 00 6F 00 62-00 61 00 0F 00 B7 6C 00  ·G·l·o·b·a···l·
170  20 00 49 00 6D 00 70 00-6F 00 00 00 72 00 74 00   ·I·m·p·o···r·t·
180  47 4C 4F 42 41 4C 7E 31-58 4C 53 20 00 B8 36 68  GLOBAL~1XLS ·¸6h
190  D6 3A D6 3A 00 00 8C 66-D6 3A 3B 00 00 B0 00 00  Ö:Ö:···fÖ:;··°··
1a0  42 2E 00 6A 00 70 00 67-00 00 00 0F 00 B1 FF FF  B.·j·p·g·····±ÿÿ
1b0  FF FF FF FF FF FF FF FF-FF FF 00 00 FF FF FF FF  ÿÿÿÿÿÿÿÿÿÿ··ÿÿÿÿ
1c0  01 69 00 6E 00 74 00 65-00 72 00 0F 00 B1 69 00  ·i·n·t·e·r···±i·
1d0  6F 00 72 00 20 00 73 00-61 00 00 00 66 00 65 00  o·r· ·s·a···f·e·
1e0  49 4E 54 45 52 49 7E 31-4A 50 47 20 00 BB 36 68  INTERI~1JPG ·»6h
1f0  D6 3A EC 3A 00 00 CA 4B-D6 3A 67 00 CA 89 00 00  Ö:ì:··ÊKÖ:g·Ê···
200  4C 4F 42 42 59 20 20 20-4A 50 47 20 18 BE 36 68  LOBBY   JPG ·¾6h
210  D6 3A EC 3A 00 00 AB 44-D6 3A 8A 00 D8 5B 00 00  Ö:ì:··«DÖ:··Ø[··
220  42 70 00 67 00 00 00 FF-FF FF FF 0F 00 AE FF FF  Bp·g···ÿÿÿÿ··®ÿÿ
230  FF FF FF FF FF FF FF FF-FF FF 00 00 FF FF FF FF  ÿÿÿÿÿÿÿÿÿÿ··ÿÿÿÿ
240  01 6C 00 6F 00 63 00 6B-00 20 00 0F 00 AE 74 00  ·l·o·c·k· ···®t·
250  79 00 70 00 65 00 20 00-31 00 00 00 2E 00 6A 00  y·p·e· ·1···.·j·
```

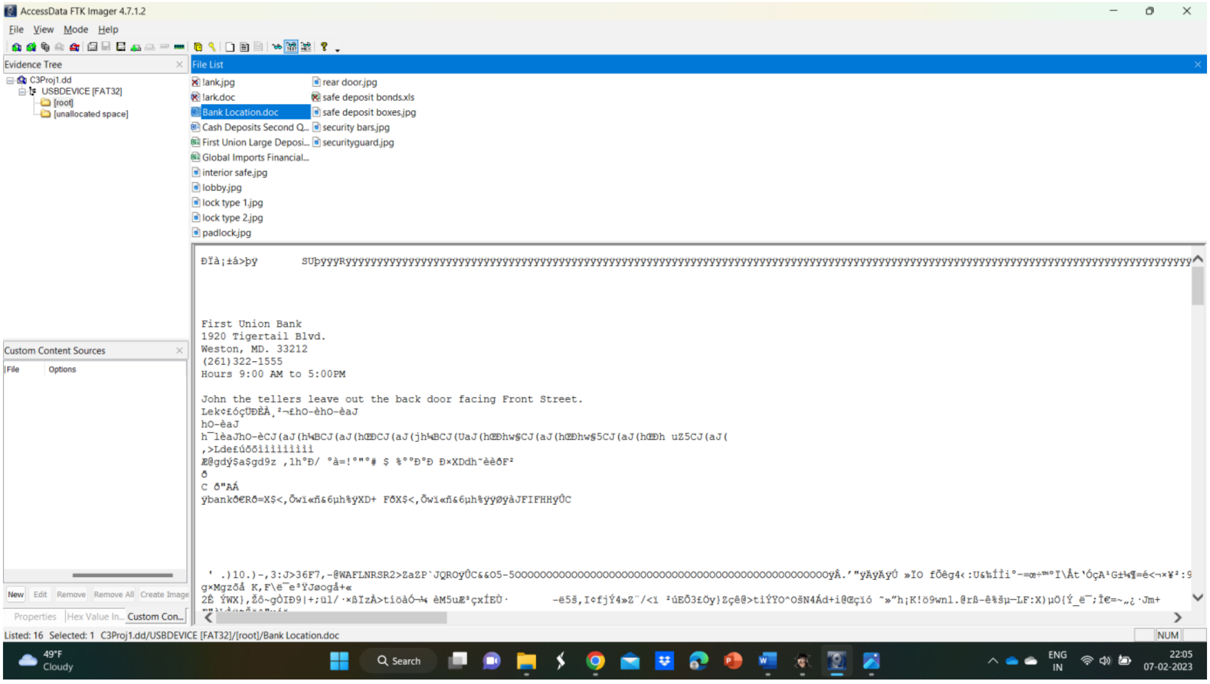
Cursor pos = 0; clus = 2; log sec = 8192

Listed: 16 Selected: 0 C3Proj1.dd/USBDEVICE [FAT32]/[root]

n. What is the name of the web site that sells safes like the interior safe found at this bank?
www.SAFESetc.com



o. What is the name of the street that the back door of the bank faces?
Front Street



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First Union Bank
1920 Tigertail Blvd.
Weston, MD. 33212
(261)322-1555
Hours 9:00 AM to 5:00PM

John the tellers leave out the back door facing Front Street.
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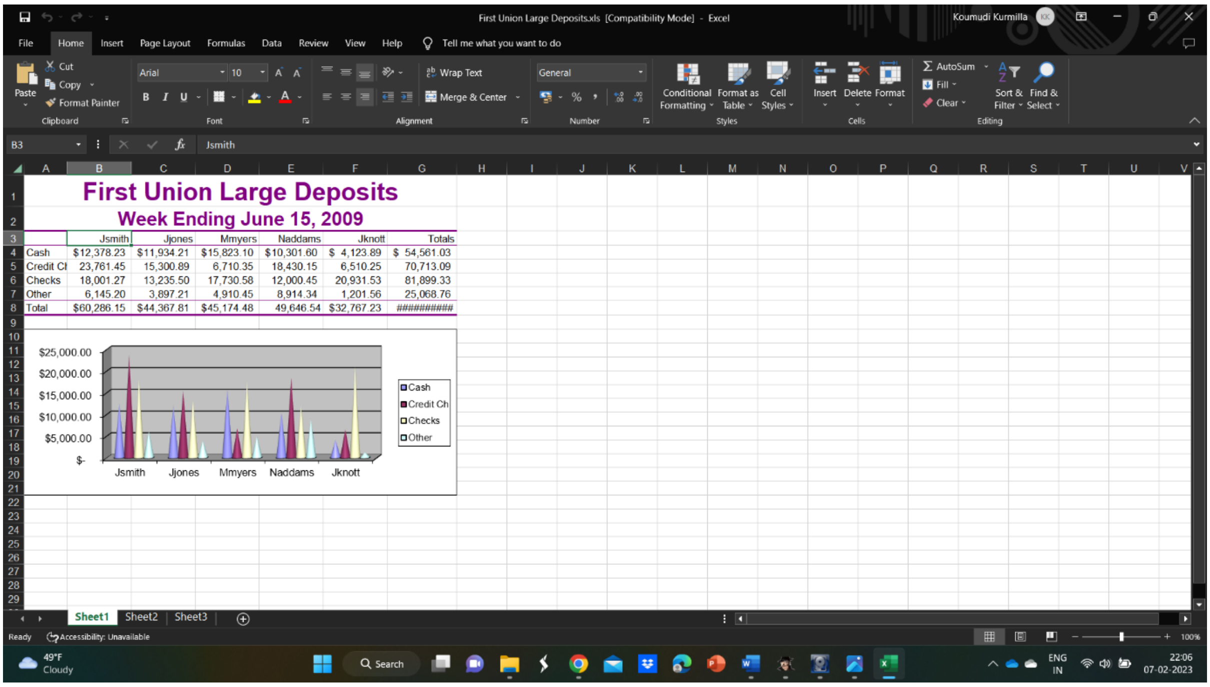
p. Right-click the **First Union Large Deposits** Excel file and select **Export Files…**. In the Browse For Folder dialog box, navigate to your working directory and click **OK** to export this file to that directory. Use MS Excel to open this file. What is the total amount of cash deposits made during the week ending June 15, 2009?
$54,561.03



B3 Jsmith

First Union Large Deposits

Week Ending June 15, 2009

	Jsmith	Jjones	Mmyers	Naddams	Jknott	Totals
Cash	$12,378.23	$11,934.21	$15,823.10	$10,301.60	$ 4,123.89	$ 54,561.03
Credit Cl	23,761.45	15,300.89	6,710.35	18,430.15	6,510.25	70,713.09
Checks	18,001.27	13,235.50	17,730.58	12,000.45	20,931.53	81,899.33
Other	6,145.20	3,897.21	4,910.45	8,914.34	1,201.56	25,068.76
Total	$60,286.15	$44,367.81	$45,174.48	49,646.54	$32,767.23	##########