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Team: Blob  
CSC 415-03 Operating Systems

## File System Project: Milestone One

### Team: Blob

Team Member	Student ID	Github Name
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Team Github: [csc415-filesystem-westleyc30](https://github.com/csc415-filesystem-westleyc30)

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## Descriptions:

### 1. Volume Control Block:

- a. For the volume control block, we initialized with a structure that contains the main information needed for the current volume, such as when the free space starts, how many free blocks there are, and what is the signature that it will hold.

### 2. Free Space Management:

For the Free Space Management, we would use a contiguous chain for the VCB, a map for our free space, the root directory, and any leftover space that we can use to allocate any file. However, with the VCB, our map, and the root directory, we leave those blocks being used, while the leftover will be free for anything else that the user wants to allocate.

### 3. Root Directory:

- a. For the root directory, it allows us to not only initialize just the root directory (as well as the “..” directory), but also allow initialization of any directory. In addition, we also gave it various pieces of metadata, ranging from the name, location, how big it is, various date-related attributes, and if it’s a directory or not.

Section	Who worked on it
Volume Control Block	Precious
Free Space Management	Natalie, Angelo, and Bryan
Root Directory	Bryan and Westley

Natalie Yam

Bryan Yan

Westley Cho

Etinosa Osagie-Amayo

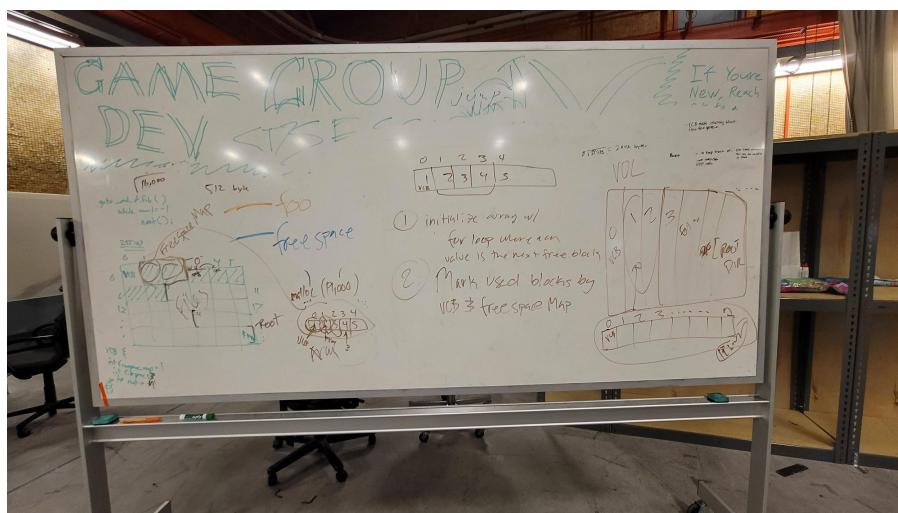
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## Approach / What we Did:

1. The first step our group approached when doing this assignment was focusing on when to meet up at certain times over the weekend. Once we get the chance to work with each other, mainly 3:30pm on Saturday and 1pm on Sunday, we would be discussing certain roles for certain people, such as who will work on the root directory, free space management, or the volume control block. This would also include multiple people working on a certain aspect of the code, and possibly one person for one section, if they decided to work on it themselves. This also takes into account our five total members and there were three different sections of milestone one.
  - a. Once we decided on our given roles, we would give time to discuss with each other on how we were going to approach our sections, while those that were doing a section by themselves would be working by themselves before we had to check in with each other.
2. The next step that our group took, while still doing an online discussion during the planning stage, was to help clear up some confusion within the milestone one step. One of the biggest concerns that we came across was being able to figure out our own free space management system. While a lot of the issues came from translating our idea into code, some of the issues came from what certain functions we were going to use, such as either using a bitmap with our FAT system, how we were going to store each of the various free blocks, etc.
  - a. One of the biggest changes to approach when working as a group was instead of meeting over online, we would instead work in person so that we can easily draw out ideas near each other through white boarding, such as being able to visually see how our volumes on disk work, and how our free space management would relate to it:



3. While continuing with our approach, our group would tend to come across massive changes within how our code is structured. Two of the biggest examples in our code comes from the VCB and FreeSpace initialization, as some parts of our code would include additions or having to remake certain parts. Some of these include adding more members for our VCB,

```
✓ typedef struct vcb {
    int blocks; // amount of blocks
    int blockSize; // size of each block
    int freeBlocks; // amount of free blocks
    int fatStart; // block number of first FAT entry
    int freeSpaceStart;
    int rootDirStart; // block number of first directory entry
    long signature; // signature of the VCB
} vcb;
```

```
+ typedef struct vcb {
+     int blocks;
+     int blockSize;
+     int freeBlocks;
+     int freeSpaceStart;
+     int rootDirStart;
+     long signature;
+ } vcb;
```

or having to utilize a struct for our freespace map instead of a regular array.

```
typedef struct blockIndicator {
    int nextBlock;
    int usedBlock; // 0 for unused, 1 for used
}blockIndicator; // size is 8 bytes
```

```
int FATMap[] = malloc(FATSize);
```

Overtime, many of these changes would end up becoming a part of the final product for our code.

4. Currently, our freespace allocates blocks contiguously but there will come a point where our memory becomes fragmented due to adding, deleting , appending, and etc which contiguous allocation wouldn't account for well.



In the photo above, we went over a case where it is possible that a smaller file gets “deleted”, the blocks get freed, and a new bigger file wants the space of the smaller file plus an additional block. With our current allocation method, we have no way of linking block 4 to block 15

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meaning we wouldn't be able to allocate enough space for the bigger file. This is where this pseudo-algorithm comes in.

The image shows handwritten pseudocode for a FAT allocation algorithm. The code starts by defining variables: `FreeMap[ ]`, `int startIndex`, `int count = 0`, `int prevIndex`, and `int currIndex`. It then initializes `freemap = [-1, -1, -2, -1, -2, -2]` and `n=3`. A comment above the loop indicates `Fat count * Sectors per fat`. The loop begins with `while for(i=0; i < volumesize; i++) {`. Inside the loop, it checks if `freemap[i] == -2`. If true, it increments `count`. If `count == n`, it sets `startIndex = i`, `prevIndex = i`, and `currIndex = i`. It then enters a nested loop from `i=2` to `i=4`, incrementing `currIndex` each time. After the inner loop, it checks if `count == n` again. If true, it sets `freemap[i] = -1` and returns `startIndex`. If false, it increments `currIndex` and `count`. Finally, it returns `-1`.

```
FreeMap[ ];
int startIndex;
int count = 0;
int prevIndex;
int currIndex;
freemap = [-1, -1, -2, -1, -2, -2];
n=3;

Fat count * Sectors per fat

while for(i=0; i < volumesize; i++) {
    if(freemap[i] == -2) {
        count++;
        if(count == n) {
            startIndex = i;
            prevIndex = i;
            currIndex = i;
            for(i=2; i <= 4; i++) {
                currIndex++;
            }
            if(count == n) {
                freemap[i] = -1;
                return startIndex;
            } else {
                currIndex++;
                count++;
            }
        }
    }
}
return -1;
```

The algorithm works by searching our FAT for one free block at a time and linking the current free block found to the previously found free block up to the requested amount of blocks. If not enough blocks were found and linked, we know we don't have enough space to accommodate the file and we return -1 to indicate so. We plan to revise this algorithm and implement it later on.

5. For the final step, once our team managed to gain a good understanding of how our logic would work, as well as a few more trips to office hours for check ups for said logic, our team would be coding each piece in each of its own files. However, while we do code each of the given logic, sometimes some members might have massive changes as well that would make it easier later on to work with. Once we have finished inputting our logic, each of us would go through each hex dump, translate certain addresses to figure out which belongs to one of the three sections, and have it as an analysis in our write up.

## Issues and Resolutions:

- **Issue #1:** Our first issue as a group was having to start out with our given sections, more specifically with the free space management. What we came across was mainly confusion, since we did not have a solid plan to start out with. Some of our ideas came across, some of them were undecided, and it was a bit difficult to wrap our heads into translating certain parts into code.  
**Resolution:** The main resolution that helped clear up this issue was by changing our own approach to how we would work together on starting the project. The biggest change that did help to clear up our confusion was by working in person together, rather than having to work in person. How this helped us was that by being able to physically show our own ideas on either a whiteboard, by talking directly to each other, or by being able to work directly hands on the code so we can see each other's own progress.
  - Another way we gained clarity on the assignment was also by attending office hours as a group, and keeping note of various pieces of feedback to what we should be doing, and how we should be thinking about our code. We would even keep those notes in the form of comments on a google doc, or in an online notepad.

The screenshot shows a messaging interface. At the top, there is a profile picture of a person with dark hair and a green background. Next to it is the name "Etinosa Osagie-Amayo" and the timestamp "1:51 PM Today". To the right are a blue checkmark icon and a vertical ellipsis. Below this header, the message content begins:

The FAT table has to have variable size it shouldn't be hardcoded

Call FS init, it will return what block it placed it on

So the FAT table will be placed wherever available. We can have 2 copies of the FAT table incase it gets corrupted

[Show less](#)

At the bottom of the message area, there is a button labeled "Reply or add others with @".

Here is the free head, and we want ten blocks, we save the free head as a return value (current head). Now we have current set to the free head and we set the next to the value of the current block. We do that however many blocks we want, we mark that block at the end of the chain as end of file, and the next block will start as the next head.

We might want to load the entire fat table into memory and set that fat table as a global variable so we don't have to keep re-reading the fat table every time, only when we have to start up again.

If you want to load your dir, and you know the dir block amount, with fat, it may not be contig. instead of doing an lba read of how many blocks there will be, just have a helper function given that will give you the start of the chain, that helper function will help to know when the next start of entry and will constantly jump around. It won't have to worry about whether or not it's contiguous or discontiguous.

I wanna load this blob into memory, but it doesn't need to know if it's contiguous or discontiguous. It can even check if the last block as -1 as end of file.

- **Issue #2:** Another issue that was found in our group was certain commits not showing user names and being listed as a Student.

The screenshot shows a list of three commits. The first commit is titled "1sInit changes" and has the message "Student committed 19 hours ago". The second commit is titled "Made changes to file and headers" and has the message "Student committed 19 hours ago". The third commit is titled "Made changes to FAT, and headers" and has the message "Student committed 19 hours ago". All three commits are attributed to "Student" without a visible name.

**Resolution #2:** How this issue was fixed was by putting in the correct git credentials, mainly for Angelo. From there, the output for commits was corrected.

The screenshot shows a list of two commits. Both commits are titled "Updated headers" and are attributed to "Ang197 committed yesterday". The commits are identical in content and timestamp.

- **Issue #3:** One issue our group came across when we did our free space initializer. When making it, we decided to utilize a struct that contained two integers, one that shows which block is used and what is the next block for the free map. In addition, our free space map is utilizing an array, but when mallocing the amount of bytes it will take up based on the amount of blocks it will take up in our volume, we would get an initialize error

The screenshot shows a terminal window with the following text:  
gcc -c -o fsshell.o fsshell.c -g -I.  
gcc -c -o fsInit.o fsInit.c -g -I.  
gcc -c -o FATInit.o FATInit.c -g -I.  
FATInit.c: In function 'FATInitialize':  
FATInit.c:52:31: error: invalid initializer  
 blockIndicator FATMap[] = **malloc**(FATByteSize);  
 ^~~~~~  
Makefile:58: recipe for target 'FATInit.o' failed  
make: \*\*\* [FATInit.o] Error 1  
student@student-VirtualBox: /Documents/Group File System/

**Resolution #3:** How we fixed this issue was when we realized that malloc returns a pointer value. If we used it, we should use a pointer value in order to malloc a certain size for our FATMap.

```
FATByteSize = blocksNeeded * BLOCK_SIZE; // For default, this is now 156672
blockIndicator *FATMap = malloc(FATByteSize);
```

## HexDump Analysis:

- Volume Control Block (From virtual address 0x000200 to 0x0002F0):

```
dump.linux SampleVolume --start 1 --count 1
Dumping file SampleVolume, starting at block 1 for 1 block:
000200: 4B 4C 00 00 00 02 00 00 FB 4A 00 00 01 00 00 00 | KL.....@J.....
000210: 50 01 00 00 33 01 00 00 56 34 12 CE 0A 00 00 00 | P...3...V4.0.....
000220: 20 53 79 73 74 65 6D 20 50 61 72 74 69 74 69 6F | System Partitio
000230: 6E 20 48 65 61 64 65 72 0A 0A 00 00 00 00 00 00 | n Header...
000240: 42 20 74 72 65 62 6F 52 00 96 98 00 00 00 00 00 | B treboR.@@...
000250: 00 02 00 00 00 00 00 00 4B 4C 00 00 00 00 00 00 | .....KL....
000260: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
000270: 52 6F 62 65 72 74 20 42 55 6E 74 69 74 6C 65 64 | Robert BUntitled
000280: 0A 0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
000290: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002A0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002B0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002E0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
0002F0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....
```

— blocks  
 — blocksize  
 — free blocks  
 — fatStart  
 — freeSpace Start  
 — root dir Start  
 — signature

- The Hex dump for the Volume control block shows the values we initialized our `vcb` struct with in `fsInit.c`. The first four bytes(in pink) of the hex dump represent our first field in our `vcb` struct which is `blocks` for the number of blocks in the `vcb`. Since the hex dump is in little endian we read `4B 4C 00 00` as `00 00 4C 4B` which is 19,531 which is the correct amount of blocks in our volume.
- The next 4 bytes in the hex dump(in blue) is `blockSize` `00000200` (we reverse because it is little endian) which is 512 when you translate it to decimal which is correct, that is how big our `blockSize` is.
- The next 4 bytes is the `freeBlocks` field in our `vcb` struct (in red) is `00004AFB` which is 19195 blocks which represents the amount of free blocks we have left.

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- The next 4 bytes is the fatStart (starting block) (in green) which translates to 00000001 -> 1 in decimal which is true since block 0 is the volume control block and the next block should be where our file allocation table starts.
- The next 4 bytes is the freeSpaceStart (in purple) which translates as 00000150 -> 336 so our freeSpace starts at block 336.
- The next 4 bytes is the rootDirStart (in brown) which translates from 00000133 -> 307, so our root dir starts at block 307 which is correct since our FAT takes up 306 blocks.
- The next 8 bytes is the signature since the signature field in our vcb (in yellow) is a long . When you convert 0000000ACE123456 to ascii you get our signature which is Robert B.

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- FAT(Free Space Manager)(From Virtual Address 0x000400 - 0x0267F0):

000400:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	02 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000410:	03 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	04 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000420:	05 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	06 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000430:	07 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	08 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000440:	09 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	0A 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000450:	0B 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	0C 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000460:	0D 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	0E 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000470:	0F 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	10 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000480:	11 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	12 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000490:	13 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	14 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004A0:	15 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	16 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004B0:	17 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	18 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004C0:	19 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	1A 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004D0:	1B 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	1C 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004E0:	1D 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	1E 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
0004F0:	1F 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	20 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	.....
000500:	21 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	22 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	!....."
000510:	23 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	24 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	#.....\$
000520:	25 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	26 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	%.....&
000530:	27 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	28 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	'.....(
000540:	29 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	2A 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	).....*
000550:	2B 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	2C 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	+.....,
000560:	2D 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	2E 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	-.....
000570:	2F 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	30 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	/.....0
000580:	31 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	32 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	1.....2
000590:	33 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	34 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	3.....4
0005A0:	35 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	36 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	5.....6
0005B0:	37 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	38 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	7.....8
0005C0:	39 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	3A 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	9.....:
0005D0:	3B 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	3C 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	;.....<
0005E0:	3D 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	3E 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	=.....>
0005F0:	3F 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	40 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00	?.....@.....

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026600:	41 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	42 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	AL.....BL.....
026610:	43 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	44 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	CL.....DL.....
026620:	45 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	46 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	EL.....FL.....
026630:	47 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	48 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	GL.....HL.....
026640:	49 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	4A 4C 00 00 00 00 00 00 00 00 00 00 00 00 00 00	IL.....JL.....
026650:	FE FF FF FF 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	?????
026660:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026670:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026680:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026690:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266A0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266B0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266C0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266D0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266E0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0266F0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026700:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026710:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026720:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026730:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026740:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026750:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026760:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026770:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026780:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
026790:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267A0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267B0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267C0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267D0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267E0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0267F0:	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

- Hex Address Interpreted:

- **(Virtual address: 0x026650)FFFFFFFFFF:** A part of the FAT Map that indicates where our entire volume ends at, because address 4A4C (when converted from little endian) converts 19530, which is block 19530 of our entire volume. And the rest of the addresses will indicate the previous blocks we are mapping to.

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- Root Directory(From Virtual Address 0x026800 - 0x02A1F0):

026800:	2E 00 00 00 00 00 00 00 00 00 02 00 00 00 01 00 00 00 00   .....
026810:	03 00 00 00 01 00 00 00 00 00 04 00 00 00 01 00 00 00 00   .....
026820:	05 00 00 00 01 00 00 00 00 00 06 00 00 00 01 00 00 00 00   .....
026830:	07 00 00 00 01 00 00 00 00 00 08 00 00 00 01 00 00 00 00   .....
026840:	09 00 00 00 01 00 00 00 00 00 0A 00 00 00 01 00 00 00 00   .....
026850:	0B 00 00 00 01 00 00 00 00 00 0C 00 00 00 01 00 00 00 00   .....
026860:	0D 00 00 00 01 00 00 00 00 00 0E 00 00 00 01 00 00 00 00   .....
026870:	0F 00 00 00 01 00 00 00 00 00 10 00 00 00 01 00 00 00 00   .....
026880:	11 00 00 00 01 00 00 00 00 00 12 00 00 00 01 00 00 00 00   .....
026890:	13 00 00 00 01 00 00 00 00 00 14 00 00 00 01 00 00 00 00   .....
0268A0:	15 00 00 00 01 00 00 00 00 00 16 00 00 00 01 00 00 00 00   .....
0268B0:	17 00 00 00 01 00 00 00 00 00 18 00 00 00 01 00 00 00 00   .....
0268C0:	19 00 00 00 01 00 00 00 00 00 1A 00 00 00 01 00 00 00 00   .....
0268D0:	1B 00 00 00 01 00 00 00 00 00 1C 00 00 00 01 00 00 00 00   .....
0268E0:	1D 00 00 00 01 00 00 00 00 00 1E 00 00 00 01 00 00 00 00   .....
0268F0:	1F 00 00 00 01 00 00 00 00 00 20 00 00 00 01 00 00 00 00   .....
026900:	33 01 00 00 D0 39 00 00 70 8C 3D 65 00 00 00 00 00   3...+9..p=e....
026910:	70 8C 3D 65 00 00 00 00 00 00 70 8C 3D 65 00 00 00 00   p=e....p=e....
026920:	01 00 00 00 01 00 00 00 00 00 2E 2E 00 00 01 00 00 00   .....
026930:	27 00 00 00 01 00 00 00 00 00 28 00 00 00 01 00 00 00   '.....(.....
026940:	29 00 00 00 01 00 00 00 00 00 2A 00 00 00 01 00 00 00   ).....*.....
026950:	2B 00 00 00 01 00 00 00 00 00 2C 00 00 00 01 00 00 00   +.....,.....
026960:	2D 00 00 00 01 00 00 00 00 00 2E 00 00 00 01 00 00 00   -.....
026970:	2F 00 00 00 01 00 00 00 00 00 30 00 00 00 01 00 00 00   /.....0.....
026980:	31 00 00 00 01 00 00 00 00 00 32 00 00 00 01 00 00 00   1.....2.....
026990:	33 00 00 00 01 00 00 00 00 00 34 00 00 00 01 00 00 00   3.....4.....
0269A0:	35 00 00 00 01 00 00 00 00 00 36 00 00 00 01 00 00 00   5.....6.....
0269B0:	37 00 00 00 01 00 00 00 00 00 38 00 00 00 01 00 00 00   7.....8.....
0269C0:	39 00 00 00 01 00 00 00 00 00 3A 00 00 00 01 00 00 00   9.....:.....
0269D0:	3B 00 00 00 01 00 00 00 00 00 3C 00 00 00 01 00 00 00   ;.....<.....
0269E0:	3D 00 00 00 01 00 00 00 00 00 3E 00 00 00 01 00 00 00   =.....>.....
0269F0:	3F 00 00 00 01 00 00 00 00 00 40 00 00 00 01 00 00 00   ?.....@.....

Natalie Yam

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Westley Cho

Etinosa Osagie-Amayo

Angelo Lance Quetua

Team: Blob  
CSC 415-03 Operating Systems

026A00:	41 00 00 00 01 00 00 00	42 00 00 00 01 00 00 00	A.....B.....
026A10:	43 00 00 00 01 00 00 00	44 00 00 00 01 00 00 00	C.....D.....
026A20:	45 00 00 00 01 00 00 00	33 01 00 00 D0 39 00 00	E.....3....9..
026A30:	70 8C 3D 65 00 00 00 00	70 8C 3D 65 00 00 00 00	p=e....p=e....
026A40:	70 8C 3D 65 00 00 00 00	01 00 00 00 01 00 00 00	p=e.....
026A50:	00 00 00 00 01 00 00 00	4C 00 00 00 01 00 00 00	.....L.....
026A60:	4D 00 00 00 01 00 00 00	4E 00 00 00 01 00 00 00	M.....N.....
026A70:	4F 00 00 00 01 00 00 00	50 00 00 00 01 00 00 00	O.....P.....
026A80:	51 00 00 00 01 00 00 00	52 00 00 00 01 00 00 00	Q.....R.....
026A90:	53 00 00 00 01 00 00 00	54 00 00 00 01 00 00 00	S.....T.....
026AA0:	55 00 00 00 01 00 00 00	56 00 00 00 01 00 00 00	U.....V.....
026AB0:	57 00 00 00 01 00 00 00	58 00 00 00 01 00 00 00	W.....X.....
026AC0:	59 00 00 00 01 00 00 00	5A 00 00 00 01 00 00 00	Y.....Z.....
026AD0:	5B 00 00 00 01 00 00 00	5C 00 00 00 01 00 00 00	[.....\.....
026AE0:	5D 00 00 00 01 00 00 00	5E 00 00 00 01 00 00 00	].....^.....
026AF0:	5F 00 00 00 01 00 00 00	60 00 00 00 01 00 00 00	_.....`.....
026B00:	61 00 00 00 01 00 00 00	62 00 00 00 01 00 00 00	a.....b.....
026B10:	63 00 00 00 01 00 00 00	64 00 00 00 01 00 00 00	c.....d.....
026B20:	65 00 00 00 01 00 00 00	66 00 00 00 01 00 00 00	e.....f.....
026B30:	67 00 00 00 01 00 00 00	68 00 00 00 01 00 00 00	g.....h.....
026B40:	69 00 00 00 01 00 00 00	6A 00 00 00 01 00 00 00	i.....j.....
026B50:	6B 00 00 00 01 00 00 00	6C 00 00 00 01 00 00 00	k.....l.....
026B60:	6D 00 00 00 01 00 00 00	6E 00 00 00 01 00 00 00	m.....n.....
026B70:	6F 00 00 00 01 00 00 00	00 00 00 00 01 00 00 00	o.....
026B80:	71 00 00 00 01 00 00 00	72 00 00 00 01 00 00 00	q.....r.....
026B90:	73 00 00 00 01 00 00 00	74 00 00 00 01 00 00 00	s.....t.....
026BA0:	75 00 00 00 01 00 00 00	76 00 00 00 01 00 00 00	u.....v.....
026BB0:	77 00 00 00 01 00 00 00	78 00 00 00 01 00 00 00	w.....x.....
026BC0:	79 00 00 00 01 00 00 00	7A 00 00 00 01 00 00 00	y.....z.....
026BD0:	7B 00 00 00 01 00 00 00	7C 00 00 00 01 00 00 00	{..... .....
026BE0:	7D 00 00 00 01 00 00 00	7E 00 00 00 01 00 00 00	}.....~.....
026BF0:	7F 00 00 00 01 00 00 00	80 00 00 00 01 00 00 00	.....*.....

Natalie Yam

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Angelo Lance Quetua

Team: Blob  
CSC 415-03 Operating Systems

026C00:	81 00 00 00 01 00 00 00	82 00 00 00 01 00 00 00	. . . . . . . .
026C10:	83 00 00 00 01 00 00 00	84 00 00 00 01 00 00 00	. . . . . . . .
026C20:	85 00 00 00 01 00 00 00	86 00 00 00 01 00 00 00	. . . . . . . .
026C30:	87 00 00 00 01 00 00 00	88 00 00 00 01 00 00 00	. . . . . . . .
026C40:	89 00 00 00 01 00 00 00	8A 00 00 00 01 00 00 00	. . . . . . . .
026C50:	8B 00 00 00 01 00 00 00	8C 00 00 00 01 00 00 00	. . . . . . . .
026C60:	8D 00 00 00 01 00 00 00	8E 00 00 00 01 00 00 00	. . . . . . . .
026C70:	8F 00 00 00 01 00 00 00	90 00 00 00 01 00 00 00	. . . . . . . .
026C80:	91 00 00 00 01 00 00 00	92 00 00 00 01 00 00 00	. . . . . . . .
026C90:	93 00 00 00 01 00 00 00	94 00 00 00 01 00 00 00	. . . . . . . .
026CA0:	00 00 00 00 01 00 00 00	96 00 00 00 01 00 00 00	. . . . . . . .
026CB0:	97 00 00 00 01 00 00 00	98 00 00 00 01 00 00 00	. . . . . . . .
026CC0:	99 00 00 00 01 00 00 00	9A 00 00 00 01 00 00 00	. . . . . . . .
026CD0:	9B 00 00 00 01 00 00 00	9C 00 00 00 01 00 00 00	. . . . . . . .
026CE0:	9D 00 00 00 01 00 00 00	9E 00 00 00 01 00 00 00	. . . . . . . .
026CF0:	9F 00 00 00 01 00 00 00	A0 00 00 00 01 00 00 00	. . . . . . . .
026D00:	A1 00 00 00 01 00 00 00	A2 00 00 00 01 00 00 00	. . . . . . . .
026D10:	A3 00 00 00 01 00 00 00	A4 00 00 00 01 00 00 00	. . . . . . . .
026D20:	A5 00 00 00 01 00 00 00	A6 00 00 00 01 00 00 00	. . . . . . . .
026D30:	A7 00 00 00 01 00 00 00	A8 00 00 00 01 00 00 00	. . . . . . . .
026D40:	A9 00 00 00 01 00 00 00	AA 00 00 00 01 00 00 00	. . . . . . . .
026D50:	AB 00 00 00 01 00 00 00	AC 00 00 00 01 00 00 00	. . . . . . . .
026D60:	AD 00 00 00 01 00 00 00	AE 00 00 00 01 00 00 00	. . . . . . . .
026D70:	AF 00 00 00 01 00 00 00	B0 00 00 00 01 00 00 00	. . . . . . . .
026D80:	B1 00 00 00 01 00 00 00	B2 00 00 00 01 00 00 00	. . . . . . . .
026D90:	B3 00 00 00 01 00 00 00	B4 00 00 00 01 00 00 00	. . . . . . . .
026DA0:	B5 00 00 00 01 00 00 00	B6 00 00 00 01 00 00 00	. . . . . . . .
026DB0:	B7 00 00 00 01 00 00 00	B8 00 00 00 01 00 00 00	. . . . . . . .
026DC0:	B9 00 00 00 01 00 00 00	00 00 00 00 01 00 00 00	. . . . . . . .
026DD0:	BB 00 00 00 01 00 00 00	BC 00 00 00 01 00 00 00	. . . . . . . .
026DE0:	BD 00 00 00 01 00 00 00	BE 00 00 00 01 00 00 00	. . . . . . . .
026DF0:	BF 00 00 00 01 00 00 00	C0 00 00 00 01 00 00 00	. . . . . . . .

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Team: Blob  
CSC 415-03 Operating Systems

026E00:	C1 00 00 00 01 00 00 00 00	C2 00 00 00 01 00 00 00 00	. . . . . . . .
026E10:	C3 00 00 00 01 00 00 00 00	C4 00 00 00 01 00 00 00 00	. . . . . . . .
026E20:	C5 00 00 00 01 00 00 00 00	C6 00 00 00 01 00 00 00 00	. . . . . . . .
026E30:	C7 00 00 00 01 00 00 00 00	C8 00 00 00 01 00 00 00 00	. . . . . . . .
026E40:	C9 00 00 00 01 00 00 00 00	CA 00 00 00 01 00 00 00 00	. . . . . . . .
026E50:	CB 00 00 00 01 00 00 00 00	CC 00 00 00 01 00 00 00 00	. . . . . . . .
026E60:	CD 00 00 00 01 00 00 00 00	CE 00 00 00 01 00 00 00 00	. . . . . . . .
026E70:	CF 00 00 00 01 00 00 00 00	D0 00 00 00 01 00 00 00 00	. . . . . . . .
026E80:	D1 00 00 00 01 00 00 00 00	D2 00 00 00 01 00 00 00 00	. . . . . . . .
026E90:	D3 00 00 00 01 00 00 00 00	D4 00 00 00 01 00 00 00 00	. . . . . . . .
026EA0:	D5 00 00 00 01 00 00 00 00	D6 00 00 00 01 00 00 00 00	. . . . . . . .
026EB0:	D7 00 00 00 01 00 00 00 00	D8 00 00 00 01 00 00 00 00	. . . . . . . .
026EC0:	D9 00 00 00 01 00 00 00 00	DA 00 00 00 01 00 00 00 00	. . . . . . . .
026ED0:	DB 00 00 00 01 00 00 00 00	DC 00 00 00 01 00 00 00 00	. . . . . . . .
026EE0:	DD 00 00 00 01 00 00 00 00	DE 00 00 00 01 00 00 00 00	. . . . . . . .
026EF0:	00 00 00 00 01 00 00 00 00	E0 00 00 00 01 00 00 00 00	. . . . . . . .
026F00:	E1 00 00 00 01 00 00 00 00	E2 00 00 00 01 00 00 00 00	. . . . . . . .
026F10:	E3 00 00 00 01 00 00 00 00	E4 00 00 00 01 00 00 00 00	. . . . . . . .
026F20:	E5 00 00 00 01 00 00 00 00	E6 00 00 00 01 00 00 00 00	. . . . . . . .
026F30:	E7 00 00 00 01 00 00 00 00	E8 00 00 00 01 00 00 00 00	. . . . . . . .
026F40:	E9 00 00 00 01 00 00 00 00	EA 00 00 00 01 00 00 00 00	. . . . . . . .
026F50:	EB 00 00 00 01 00 00 00 00	EC 00 00 00 01 00 00 00 00	. . . . . . . .
026F60:	ED 00 00 00 01 00 00 00 00	EE 00 00 00 01 00 00 00 00	. . . . . . . .
026F70:	EF 00 00 00 01 00 00 00 00	F0 00 00 00 01 00 00 00 00	. . . . . . . .
026F80:	F1 00 00 00 01 00 00 00 00	F2 00 00 00 01 00 00 00 00	. . . . . . . .
026F90:	F3 00 00 00 01 00 00 00 00	F4 00 00 00 01 00 00 00 00	. . . . . . . .
026FA0:	F5 00 00 00 01 00 00 00 00	F6 00 00 00 01 00 00 00 00	. . . . . . . .
026FB0:	F7 00 00 00 01 00 00 00 00	F8 00 00 00 01 00 00 00 00	. . . . . . . .
026FC0:	F9 00 00 00 01 00 00 00 00	FA 00 00 00 01 00 00 00 00	. . . . . . . .
026FD0:	FB 00 00 00 01 00 00 00 00	FC 00 00 00 01 00 00 00 00	. . . . . . . .
026FE0:	FD 00 00 00 01 00 00 00 00	FE 00 00 00 01 00 00 00 00	. . . . . . . .
026FF0:	FF 00 00 00 01 00 00 00 00	00 01 00 00 01 00 00 00 00	. . . . . . . .

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Team: Blob  
CSC 415-03 Operating Systems

027000:	01 01 00 00 01 00 00 00	02 01 00 00 01 00 00 00	.....
027010:	03 01 00 00 01 00 00 00	00 01 00 00 01 00 00 00	.....
027020:	05 01 00 00 01 00 00 00	06 01 00 00 01 00 00 00	.....
027030:	07 01 00 00 01 00 00 00	08 01 00 00 01 00 00 00	.....
027040:	09 01 00 00 01 00 00 00	0A 01 00 00 01 00 00 00	.....
027050:	0B 01 00 00 01 00 00 00	0C 01 00 00 01 00 00 00	.....
027060:	0D 01 00 00 01 00 00 00	0E 01 00 00 01 00 00 00	.....
027070:	0F 01 00 00 01 00 00 00	10 01 00 00 01 00 00 00	.....
027080:	11 01 00 00 01 00 00 00	12 01 00 00 01 00 00 00	.....
027090:	13 01 00 00 01 00 00 00	14 01 00 00 01 00 00 00	.....
0270A0:	15 01 00 00 01 00 00 00	16 01 00 00 01 00 00 00	.....
0270B0:	17 01 00 00 01 00 00 00	18 01 00 00 01 00 00 00	.....
0270C0:	19 01 00 00 01 00 00 00	1A 01 00 00 01 00 00 00	.....
0270D0:	1B 01 00 00 01 00 00 00	1C 01 00 00 01 00 00 00	.....
0270E0:	1D 01 00 00 01 00 00 00	1E 01 00 00 01 00 00 00	.....
0270F0:	1F 01 00 00 01 00 00 00	20 01 00 00 01 00 00 00	.....
027100:	21 01 00 00 01 00 00 00	22 01 00 00 01 00 00 00	!....."
027110:	23 01 00 00 01 00 00 00	24 01 00 00 01 00 00 00	#.....\$
027120:	25 01 00 00 01 00 00 00	26 01 00 00 01 00 00 00	%.....&
027130:	27 01 00 00 01 00 00 00	28 01 00 00 01 00 00 00	'.....(
027140:	00 01 00 00 01 00 00 00	2A 01 00 00 01 00 00 00	.....*
027150:	2B 01 00 00 01 00 00 00	2C 01 00 00 01 00 00 00	+.....,
027160:	2D 01 00 00 01 00 00 00	2E 01 00 00 01 00 00 00	-.....
027170:	2F 01 00 00 01 00 00 00	30 01 00 00 01 00 00 00	/.....0.....
027180:	31 01 00 00 01 00 00 00	32 01 00 00 01 00 00 00	1.....2.....
027190:	33 01 00 00 01 00 00 00	34 01 00 00 00 00 00 00	3.....4.....
0271A0:	35 01 00 00 00 00 00 00	36 01 00 00 00 00 00 00	5.....6.....
0271B0:	37 01 00 00 00 00 00 00	38 01 00 00 00 00 00 00	7.....8.....
0271C0:	39 01 00 00 00 00 00 00	3A 01 00 00 00 00 00 00	9.....:
0271D0:	3B 01 00 00 00 00 00 00	3C 01 00 00 00 00 00 00	;.....<.....
0271E0:	3D 01 00 00 00 00 00 00	3E 01 00 00 00 00 00 00	=.....>.....
0271F0:	3F 01 00 00 00 00 00 00	40 01 00 00 00 00 00 00	?.....@.....

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Team: Blob  
CSC 415-03 Operating Systems

027200:	41 01 00 00 00 00 00 00 00 42 01 00 00 00 00 00 00 00   A.....B.....
027210:	43 01 00 00 00 00 00 00 00 44 01 00 00 00 00 00 00 00   C.....D.....
027220:	45 01 00 00 00 00 00 00 00 46 01 00 00 00 00 00 00 00   E.....F.....
027230:	47 01 00 00 00 00 00 00 00 48 01 00 00 00 00 00 00 00   G.....H.....
027240:	49 01 00 00 00 00 00 00 00 4A 01 00 00 00 00 00 00 00   I.....J.....
027250:	4B 01 00 00 00 00 00 00 00 4C 01 00 00 00 00 00 00 00   K.....L.....
027260:	4D 01 00 00 00 00 00 00 00 00 01 00 00 00 00 00 00 00   M.....
027270:	4F 01 00 00 00 00 00 00 00 50 01 00 00 00 00 00 00 00   O.....P.....
027280:	51 01 00 00 00 00 00 00 00 52 01 00 00 00 00 00 00 00   Q.....R.....
027290:	53 01 00 00 00 00 00 00 00 54 01 00 00 00 00 00 00 00   S.....T.....
0272A0:	55 01 00 00 00 00 00 00 00 56 01 00 00 00 00 00 00 00   U.....V.....
0272B0:	57 01 00 00 00 00 00 00 00 58 01 00 00 00 00 00 00 00   W.....X.....
0272C0:	59 01 00 00 00 00 00 00 00 5A 01 00 00 00 00 00 00 00   Y.....Z.....
0272D0:	5B 01 00 00 00 00 00 00 00 5C 01 00 00 00 00 00 00 00   [.....\.....
0272E0:	5D 01 00 00 00 00 00 00 00 5E 01 00 00 00 00 00 00 00   ].....^.....
0272F0:	5F 01 00 00 00 00 00 00 00 60 01 00 00 00 00 00 00 00   _.....`.....
027300:	61 01 00 00 00 00 00 00 00 62 01 00 00 00 00 00 00 00   a.....b.....
027310:	63 01 00 00 00 00 00 00 00 64 01 00 00 00 00 00 00 00   c.....d.....
027320:	65 01 00 00 00 00 00 00 00 66 01 00 00 00 00 00 00 00   e.....f.....
027330:	67 01 00 00 00 00 00 00 00 68 01 00 00 00 00 00 00 00   g.....h.....
027340:	69 01 00 00 00 00 00 00 00 6A 01 00 00 00 00 00 00 00   i.....j.....
027350:	6B 01 00 00 00 00 00 00 00 6C 01 00 00 00 00 00 00 00   k.....l.....
027360:	6D 01 00 00 00 00 00 00 00 6E 01 00 00 00 00 00 00 00   m.....n.....
027370:	6F 01 00 00 00 00 00 00 00 70 01 00 00 00 00 00 00 00   o.....p.....
027380:	71 01 00 00 00 00 00 00 00 72 01 00 00 00 00 00 00 00   q.....r.....
027390:	00 01 00 00 00 00 00 00 00 74 01 00 00 00 00 00 00 00   .....t.....
0273A0:	75 01 00 00 00 00 00 00 00 76 01 00 00 00 00 00 00 00   u.....v.....
0273B0:	77 01 00 00 00 00 00 00 00 78 01 00 00 00 00 00 00 00   w.....x.....
0273C0:	79 01 00 00 00 00 00 00 00 7A 01 00 00 00 00 00 00 00   y.....z.....
0273D0:	7B 01 00 00 00 00 00 00 00 7C 01 00 00 00 00 00 00 00   {..... .....
0273E0:	7D 01 00 00 00 00 00 00 00 7E 01 00 00 00 00 00 00 00   }.....~.....
0273F0:	7F 01 00 00 00 00 00 00 00 80 01 00 00 00 00 00 00 00   .....*.....

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CSC 415-03 Operating Systems

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CSC 415-03 Operating Systems

027600:	C1 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027610:	C3 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027620:	C5 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027630:	C7 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027640:	C9 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027650:	CB 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027660:	CD 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027670:	CF 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027680:	D1 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027690:	D3 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276A0:	D5 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276B0:	D7 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276C0:	D9 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276D0:	DB 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276E0:	DD 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0276F0:	DF 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027700:	E1 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027710:	E3 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027720:	E5 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027730:	E7 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027740:	E9 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027750:	EB 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027760:	ED 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027770:	EF 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027780:	F1 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
027790:	F3 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277A0:	F5 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277B0:	F7 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277C0:	F9 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277D0:	FB 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277E0:	FD 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0277F0:	FF 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

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Team: Blob  
CSC 415-03 Operating Systems

Natalie Yam

Bryan Yan

Westley Cho

Etinosa Osagie-Amayo

Angelo Lance Quetua

Team: Blob  
CSC 415-03 Operating Systems

027A00:	41 02 00 00 00 00 00 00 00 00 42 02 00 00 00 00 00 00 00 00   A.....B.....
027A10:	43 02 00 00 00 00 00 00 00 00 44 02 00 00 00 00 00 00 00 00   C.....D.....
027A20:	45 02 00 00 00 00 00 00 00 00 46 02 00 00 00 00 00 00 00 00   E.....F.....
027A30:	47 02 00 00 00 00 00 00 00 00 48 02 00 00 00 00 00 00 00 00   G.....H.....
027A40:	49 02 00 00 00 00 00 00 00 00 4A 02 00 00 00 00 00 00 00 00   I.....J.....
027A50:	4B 02 00 00 00 00 00 00 00 00 4C 02 00 00 00 00 00 00 00 00   K.....L.....
027A60:	4D 02 00 00 00 00 00 00 00 00 4E 02 00 00 00 00 00 00 00 00   M.....N.....
027A70:	4F 02 00 00 00 00 00 00 00 00 50 02 00 00 00 00 00 00 00 00   O.....P.....
027A80:	00 02 00 00 00 00 00 00 00 00 52 02 00 00 00 00 00 00 00 00   .....R.....
027A90:	53 02 00 00 00 00 00 00 00 00 54 02 00 00 00 00 00 00 00 00   S.....T.....
027AA0:	55 02 00 00 00 00 00 00 00 00 56 02 00 00 00 00 00 00 00 00   U.....V.....
027AB0:	57 02 00 00 00 00 00 00 00 00 58 02 00 00 00 00 00 00 00 00   W.....X.....
027AC0:	59 02 00 00 00 00 00 00 00 00 5A 02 00 00 00 00 00 00 00 00   Y.....Z.....
027AD0:	5B 02 00 00 00 00 00 00 00 00 5C 02 00 00 00 00 00 00 00 00   [.....\.....
027AE0:	5D 02 00 00 00 00 00 00 00 00 5E 02 00 00 00 00 00 00 00 00   ].....^.....
027AF0:	5F 02 00 00 00 00 00 00 00 00 60 02 00 00 00 00 00 00 00 00   _.....`.....
027B00:	61 02 00 00 00 00 00 00 00 00 62 02 00 00 00 00 00 00 00 00   a.....b.....
027B10:	63 02 00 00 00 00 00 00 00 00 64 02 00 00 00 00 00 00 00 00   c.....d.....
027B20:	65 02 00 00 00 00 00 00 00 00 66 02 00 00 00 00 00 00 00 00   e.....f.....
027B30:	67 02 00 00 00 00 00 00 00 00 68 02 00 00 00 00 00 00 00 00   g.....h.....
027B40:	69 02 00 00 00 00 00 00 00 00 6A 02 00 00 00 00 00 00 00 00   i.....j.....
027B50:	6B 02 00 00 00 00 00 00 00 00 6C 02 00 00 00 00 00 00 00 00   k.....l.....
027B60:	6D 02 00 00 00 00 00 00 00 00 6E 02 00 00 00 00 00 00 00 00   m.....n.....
027B70:	6F 02 00 00 00 00 00 00 00 00 70 02 00 00 00 00 00 00 00 00   o.....p.....
027B80:	71 02 00 00 00 00 00 00 00 00 72 02 00 00 00 00 00 00 00 00   q.....r.....
027B90:	73 02 00 00 00 00 00 00 00 00 74 02 00 00 00 00 00 00 00 00   s.....t.....
027BA0:	75 02 00 00 00 00 00 00 00 00 00 02 00 00 00 00 00 00 00 00   u.....
027BB0:	77 02 00 00 00 00 00 00 00 00 78 02 00 00 00 00 00 00 00 00   w.....x.....
027BC0:	79 02 00 00 00 00 00 00 00 00 7A 02 00 00 00 00 00 00 00 00   y.....z.....
027BD0:	7B 02 00 00 00 00 00 00 00 00 7C 02 00 00 00 00 00 00 00 00   {..... .....
027BE0:	7D 02 00 00 00 00 00 00 00 00 7E 02 00 00 00 00 00 00 00 00   }.....~.....
027BF0:	7F 02 00 00 00 00 00 00 00 00 80 02 00 00 00 00 00 00 00 00   .....*.....

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Angelo Lance Quetua

Team: Blob  
CSC 415-03 Operating Systems

027C00:	81 02 00 00 00 00 00 00 00 00	82 02 00 00 00 00 00 00 00 00	. . . . .
027C10:	83 02 00 00 00 00 00 00 00 00	84 02 00 00 00 00 00 00 00 00	. . . . .
027C20:	85 02 00 00 00 00 00 00 00 00	86 02 00 00 00 00 00 00 00 00	. . . . .
027C30:	87 02 00 00 00 00 00 00 00 00	88 02 00 00 00 00 00 00 00 00	. . . . .
027C40:	89 02 00 00 00 00 00 00 00 00	8A 02 00 00 00 00 00 00 00 00	. . . . .
027C50:	8B 02 00 00 00 00 00 00 00 00	8C 02 00 00 00 00 00 00 00 00	. . . . .
027C60:	8D 02 00 00 00 00 00 00 00 00	8E 02 00 00 00 00 00 00 00 00	. . . . .
027C70:	8F 02 00 00 00 00 00 00 00 00	90 02 00 00 00 00 00 00 00 00	. . . . .
027C80:	91 02 00 00 00 00 00 00 00 00	92 02 00 00 00 00 00 00 00 00	. . . . .
027C90:	93 02 00 00 00 00 00 00 00 00	94 02 00 00 00 00 00 00 00 00	. . . . .
027CA0:	95 02 00 00 00 00 00 00 00 00	96 02 00 00 00 00 00 00 00 00	. . . . .
027CB0:	97 02 00 00 00 00 00 00 00 00	98 02 00 00 00 00 00 00 00 00	. . . . .
027CC0:	99 02 00 00 00 00 00 00 00 00	9A 02 00 00 00 00 00 00 00 00	. . . . .
027CD0:	00 02 00 00 00 00 00 00 00 00	9C 02 00 00 00 00 00 00 00 00	. . . . .
027CE0:	9D 02 00 00 00 00 00 00 00 00	9E 02 00 00 00 00 00 00 00 00	. . . . .
027CF0:	9F 02 00 00 00 00 00 00 00 00	A0 02 00 00 00 00 00 00 00 00	. . . . .
027D00:	A1 02 00 00 00 00 00 00 00 00	A2 02 00 00 00 00 00 00 00 00	. . . . .
027D10:	A3 02 00 00 00 00 00 00 00 00	A4 02 00 00 00 00 00 00 00 00	. . . . .
027D20:	A5 02 00 00 00 00 00 00 00 00	A6 02 00 00 00 00 00 00 00 00	. . . . .
027D30:	A7 02 00 00 00 00 00 00 00 00	A8 02 00 00 00 00 00 00 00 00	. . . . .
027D40:	A9 02 00 00 00 00 00 00 00 00	AA 02 00 00 00 00 00 00 00 00	. . . . .
027D50:	AB 02 00 00 00 00 00 00 00 00	AC 02 00 00 00 00 00 00 00 00	. . . . .
027D60:	AD 02 00 00 00 00 00 00 00 00	AE 02 00 00 00 00 00 00 00 00	. . . . .
027D70:	AF 02 00 00 00 00 00 00 00 00	B0 02 00 00 00 00 00 00 00 00	. . . . .
027D80:	B1 02 00 00 00 00 00 00 00 00	B2 02 00 00 00 00 00 00 00 00	. . . . .
027D90:	B3 02 00 00 00 00 00 00 00 00	B4 02 00 00 00 00 00 00 00 00	. . . . .
027DA0:	B5 02 00 00 00 00 00 00 00 00	B6 02 00 00 00 00 00 00 00 00	. . . . .
027DB0:	B7 02 00 00 00 00 00 00 00 00	B8 02 00 00 00 00 00 00 00 00	. . . . .
027DC0:	B9 02 00 00 00 00 00 00 00 00	BA 02 00 00 00 00 00 00 00 00	. . . . .
027DD0:	BB 02 00 00 00 00 00 00 00 00	BC 02 00 00 00 00 00 00 00 00	. . . . .
027DE0:	BD 02 00 00 00 00 00 00 00 00	BE 02 00 00 00 00 00 00 00 00	. . . . .
027DF0:	BF 02 00 00 00 00 00 00 00 00	00 02 00 00 00 00 00 00 00 00	. . . . .

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028200:	41 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   A.....B.....
028210:	43 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   C.....D.....
028220:	45 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   E.....F.....
028230:	47 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   G.....H.....
028240:	49 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   I.....J.....
028250:	4B 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   K.....L.....
028260:	4D 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   M.....N.....
028270:	4F 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   O.....P.....
028280:	51 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   Q.....R.....
028290:	53 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   S.....
0282A0:	55 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   U.....V.....
0282B0:	57 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   W.....X.....
0282C0:	59 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   Y.....Z.....
0282D0:	5B 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   [.....\.....
0282E0:	5D 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ].....^.....
0282F0:	5F 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   _.....`.....
028300:	61 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   a.....b.....
028310:	63 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   c.....d.....
028320:	65 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   e.....f.....
028330:	67 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   g.....h.....
028340:	69 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   i.....j.....
028350:	6B 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   k.....l.....
028360:	6D 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   m.....n.....
028370:	6F 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   o.....p.....
028380:	71 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   q.....r.....
028390:	73 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   s.....t.....
0283A0:	75 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   u.....v.....
0283B0:	77 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   w.....x.....
0283C0:	00 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....z.....
0283D0:	7B 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   {..... .....
0283E0:	7D 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   }.....~.....
0283F0:	7F 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....*.....

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028600:	C1 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028610:	00 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028620:	C5 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028630:	C7 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028640:	C9 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028650:	CB 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028660:	CD 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028670:	CF 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028680:	D1 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028690:	D3 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286A0:	D5 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286B0:	D7 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286C0:	D9 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286D0:	DB 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286E0:	DD 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0286F0:	DF 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028700:	E1 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028710:	E3 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028720:	E5 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028730:	E7 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028740:	E9 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028750:	EB 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028760:	ED 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028770:	EF 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028780:	F1 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028790:	F3 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287A0:	F5 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287B0:	F7 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287C0:	F9 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287D0:	FB 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287E0:	FD 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
0287F0:	FF 03 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

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028A00:	41 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   A.....B.....
028A10:	43 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   C.....D.....
028A20:	45 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   E.....F.....
028A30:	47 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   G.....H.....
028A40:	49 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   I.....J.....
028A50:	4B 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   K.....L.....
028A60:	4D 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   M.....N.....
028A70:	4F 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   O.....P.....
028A80:	51 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   Q.....R.....
028A90:	53 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   S.....T.....
028AA0:	55 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   U.....V.....
028AB0:	00 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....X.....
028AC0:	59 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   Y.....Z.....
028AD0:	5B 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   [.....\.....
028AE0:	5D 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ].....^.....
028AF0:	5F 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   _.....`.....
028B00:	61 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   a.....b.....
028B10:	63 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   c.....d.....
028B20:	65 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   e.....f.....
028B30:	67 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   g.....h.....
028B40:	69 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   i.....j.....
028B50:	6B 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   k.....l.....
028B60:	6D 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   m.....n.....
028B70:	6F 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   o.....p.....
028B80:	71 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   q.....r.....
028B90:	73 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   s.....t.....
028BA0:	75 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   u.....v.....
028BB0:	77 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   w.....x.....
028BC0:	79 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   y.....z.....
028BD0:	7B 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   {.....}.....
028BE0:	7D 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   }.....~.....
028BF0:	7F 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....*.....

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028E00:	C1 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E10:	C3 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E20:	C5 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E30:	C7 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E40:	C9 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E50:	CB 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E60:	CD 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E70:	CF 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E80:	D1 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028E90:	D3 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028EA0:	D5 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028EB0:	D7 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028EC0:	D9 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028ED0:	DB 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028EE0:	DD 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028EF0:	DF 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F00:	E1 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F10:	E3 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F20:	E5 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F30:	E7 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F40:	E9 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F50:	00 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F60:	ED 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F70:	EF 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F80:	F1 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028F90:	F3 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FA0:	F5 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FB0:	F7 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FC0:	F9 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FD0:	FB 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FE0:	FD 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
028FF0:	FF 04 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

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## Angelo Lance Quetua

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Etinosa Osagie-Amayo

Angelo Lance Quetua

Team: Blob  
CSC 415-03 Operating Systems

029200:	41 05 00 00 00 00 00 00 00 00 42 05 00 00 00 00 00 00 00 00   A.....B.....
029210:	43 05 00 00 00 00 00 00 00 00 44 05 00 00 00 00 00 00 00 00   C.....D.....
029220:	45 05 00 00 00 00 00 00 00 00 46 05 00 00 00 00 00 00 00 00   E.....F.....
029230:	47 05 00 00 00 00 00 00 00 00 48 05 00 00 00 00 00 00 00 00   G.....H.....
029240:	49 05 00 00 00 00 00 00 00 00 4A 05 00 00 00 00 00 00 00 00   I.....J.....
029250:	4B 05 00 00 00 00 00 00 00 00 4C 05 00 00 00 00 00 00 00 00   K.....L.....
029260:	4D 05 00 00 00 00 00 00 00 00 4E 05 00 00 00 00 00 00 00 00   M.....N.....
029270:	4F 05 00 00 00 00 00 00 00 00 50 05 00 00 00 00 00 00 00 00   O.....P.....
029280:	51 05 00 00 00 00 00 00 00 00 52 05 00 00 00 00 00 00 00 00   Q.....R.....
029290:	53 05 00 00 00 00 00 00 00 00 54 05 00 00 00 00 00 00 00 00   S.....T.....
0292A0:	55 05 00 00 00 00 00 00 00 00 56 05 00 00 00 00 00 00 00 00   U.....V.....
0292B0:	57 05 00 00 00 00 00 00 00 00 58 05 00 00 00 00 00 00 00 00   W.....X.....
0292C0:	59 05 00 00 00 00 00 00 00 00 00 05 00 00 00 00 00 00 00 00   Y.....
0292D0:	5B 05 00 00 00 00 00 00 00 00 5C 05 00 00 00 00 00 00 00 00   [.....\.....
0292E0:	5D 05 00 00 00 00 00 00 00 00 5E 05 00 00 00 00 00 00 00 00   ].....^.....
0292F0:	5F 05 00 00 00 00 00 00 00 00 60 05 00 00 00 00 00 00 00 00   _.....`.....
029300:	61 05 00 00 00 00 00 00 00 00 62 05 00 00 00 00 00 00 00 00   a.....b.....
029310:	63 05 00 00 00 00 00 00 00 00 64 05 00 00 00 00 00 00 00 00   c.....d.....
029320:	65 05 00 00 00 00 00 00 00 00 66 05 00 00 00 00 00 00 00 00   e.....f.....
029330:	67 05 00 00 00 00 00 00 00 00 68 05 00 00 00 00 00 00 00 00   g.....h.....
029340:	69 05 00 00 00 00 00 00 00 00 6A 05 00 00 00 00 00 00 00 00   i.....j.....
029350:	6B 05 00 00 00 00 00 00 00 00 6C 05 00 00 00 00 00 00 00 00   k.....l.....
029360:	6D 05 00 00 00 00 00 00 00 00 6E 05 00 00 00 00 00 00 00 00   m.....n.....
029370:	6F 05 00 00 00 00 00 00 00 00 70 05 00 00 00 00 00 00 00 00   o.....p.....
029380:	71 05 00 00 00 00 00 00 00 00 72 05 00 00 00 00 00 00 00 00   q.....r.....
029390:	73 05 00 00 00 00 00 00 00 00 74 05 00 00 00 00 00 00 00 00   s.....t.....
0293A0:	75 05 00 00 00 00 00 00 00 00 76 05 00 00 00 00 00 00 00 00   u.....v.....
0293B0:	77 05 00 00 00 00 00 00 00 00 78 05 00 00 00 00 00 00 00 00   w.....x.....
0293C0:	79 05 00 00 00 00 00 00 00 00 7A 05 00 00 00 00 00 00 00 00   y.....z.....
0293D0:	7B 05 00 00 00 00 00 00 00 00 7C 05 00 00 00 00 00 00 00 00   {..... .....
0293E0:	7D 05 00 00 00 00 00 00 00 00 7E 05 00 00 00 00 00 00 00 00   }.....~.....
0293F0:	00 05 00 00 00 00 00 00 00 00 80 05 00 00 00 00 00 00 00 00   .....@.....

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029400:	81 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029410:	83 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029420:	85 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029430:	87 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029440:	89 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029450:	8B 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029460:	8D 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029470:	8F 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029480:	91 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029490:	93 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294A0:	95 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294B0:	97 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294C0:	99 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294D0:	9B 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294E0:	9D 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0294F0:	9F 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029500:	A1 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029510:	A3 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029520:	A5 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029530:	A7 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029540:	A9 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029550:	AB 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029560:	AD 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029570:	AF 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029580:	B1 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
029590:	B3 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295A0:	B5 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295B0:	B7 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295C0:	B9 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295D0:	BB 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295E0:	BD 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*
0295F0:	BF 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....*

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029600:	C1 05 00 00 00 00 00 00 00	C2 05 00 00 00 00 00 00 00	. . . . . . . .
029610:	C3 05 00 00 00 00 00 00 00	C4 05 00 00 00 00 00 00 00	. . . . . . . .
029620:	C5 05 00 00 00 00 00 00 00	C6 05 00 00 00 00 00 00 00	. . . . . . . .
029630:	C7 05 00 00 00 00 00 00 00	C8 05 00 00 00 00 00 00 00	. . . . . . . .
029640:	00 05 00 00 00 00 00 00 00	CA 05 00 00 00 00 00 00 00	. . . . . . . .
029650:	CB 05 00 00 00 00 00 00 00	CC 05 00 00 00 00 00 00 00	. . . . . . . .
029660:	CD 05 00 00 00 00 00 00 00	CE 05 00 00 00 00 00 00 00	. . . . . . . .
029670:	CF 05 00 00 00 00 00 00 00	D0 05 00 00 00 00 00 00 00	. . . . . . . .
029680:	D1 05 00 00 00 00 00 00 00	D2 05 00 00 00 00 00 00 00	. . . . . . . .
029690:	D3 05 00 00 00 00 00 00 00	D4 05 00 00 00 00 00 00 00	. . . . . . . .
0296A0:	D5 05 00 00 00 00 00 00 00	D6 05 00 00 00 00 00 00 00	. . . . . . . .
0296B0:	D7 05 00 00 00 00 00 00 00	D8 05 00 00 00 00 00 00 00	. . . . . . . .
0296C0:	D9 05 00 00 00 00 00 00 00	DA 05 00 00 00 00 00 00 00	. . . . . . . .
0296D0:	DB 05 00 00 00 00 00 00 00	DC 05 00 00 00 00 00 00 00	. . . . . . . .
0296E0:	DD 05 00 00 00 00 00 00 00	DE 05 00 00 00 00 00 00 00	. . . . . . . .
0296F0:	DF 05 00 00 00 00 00 00 00	E0 05 00 00 00 00 00 00 00	. . . . . . . .
029700:	E1 05 00 00 00 00 00 00 00	E2 05 00 00 00 00 00 00 00	. . . . . . . .
029710:	E3 05 00 00 00 00 00 00 00	E4 05 00 00 00 00 00 00 00	. . . . . . . .
029720:	E5 05 00 00 00 00 00 00 00	E6 05 00 00 00 00 00 00 00	. . . . . . . .
029730:	E7 05 00 00 00 00 00 00 00	E8 05 00 00 00 00 00 00 00	. . . . . . . .
029740:	E9 05 00 00 00 00 00 00 00	EA 05 00 00 00 00 00 00 00	. . . . . . . .
029750:	EB 05 00 00 00 00 00 00 00	EC 05 00 00 00 00 00 00 00	. . . . . . . .
029760:	ED 05 00 00 00 00 00 00 00	00 05 00 00 00 00 00 00 00	. . . . . . . .
029770:	EF 05 00 00 00 00 00 00 00	F0 05 00 00 00 00 00 00 00	. . . . . . . .
029780:	F1 05 00 00 00 00 00 00 00	F2 05 00 00 00 00 00 00 00	. . . . . . . .
029790:	F3 05 00 00 00 00 00 00 00	F4 05 00 00 00 00 00 00 00	. . . . . . . .
0297A0:	F5 05 00 00 00 00 00 00 00	F6 05 00 00 00 00 00 00 00	. . . . . . . .
0297B0:	F7 05 00 00 00 00 00 00 00	F8 05 00 00 00 00 00 00 00	. . . . . . . .
0297C0:	F9 05 00 00 00 00 00 00 00	FA 05 00 00 00 00 00 00 00	. . . . . . . .
0297D0:	FB 05 00 00 00 00 00 00 00	FC 05 00 00 00 00 00 00 00	. . . . . . . .
0297E0:	FD 05 00 00 00 00 00 00 00	FE 05 00 00 00 00 00 00 00	. . . . . . . .
0297F0:	FF 05 00 00 00 00 00 00 00	00 06 00 00 00 00 00 00 00	. . . . . . . .

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029800:	01 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029810:	03 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029820:	05 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029830:	07 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029840:	09 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029850:	0B 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029860:	0D 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029870:	0F 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029880:	11 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029890:	00 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298A0:	15 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298B0:	17 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298C0:	19 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298D0:	1B 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298E0:	1D 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
0298F0:	1F 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
029900:	21 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   !....."
029910:	23 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   #.....\$.....
029920:	25 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   %.....&.....
029930:	27 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   '.....(.....
029940:	29 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ).....*.....
029950:	2B 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   +.....,.....
029960:	2D 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   -.....
029970:	2F 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   /.....0.....
029980:	31 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   1.....2.....
029990:	33 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   3.....4.....
0299A0:	35 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   5.....6.....
0299B0:	37 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   7.....
0299C0:	39 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   9.....:.....
0299D0:	3B 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ;.....<.....
0299E0:	3D 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   =.....>.....
0299F0:	3F 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ?.....@.....

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029A00:	41 06 00 00 00 00 00 00 00 42 06 00 00 00 00 00 00 00   A.....B.....
029A10:	43 06 00 00 00 00 00 00 00 44 06 00 00 00 00 00 00 00   C.....D.....
029A20:	45 06 00 00 00 00 00 00 00 46 06 00 00 00 00 00 00 00   E.....F.....
029A30:	47 06 00 00 00 00 00 00 00 48 06 00 00 00 00 00 00 00   G.....H.....
029A40:	49 06 00 00 00 00 00 00 00 4A 06 00 00 00 00 00 00 00   I.....J.....
029A50:	4B 06 00 00 00 00 00 00 00 4C 06 00 00 00 00 00 00 00   K.....L.....
029A60:	4D 06 00 00 00 00 00 00 00 4E 06 00 00 00 00 00 00 00   M.....N.....
029A70:	4F 06 00 00 00 00 00 00 00 50 06 00 00 00 00 00 00 00   O.....P.....
029A80:	51 06 00 00 00 00 00 00 00 52 06 00 00 00 00 00 00 00   Q.....R.....
029A90:	53 06 00 00 00 00 00 00 00 54 06 00 00 00 00 00 00 00   S.....T.....
029AA0:	55 06 00 00 00 00 00 00 00 56 06 00 00 00 00 00 00 00   U.....V.....
029AB0:	57 06 00 00 00 00 00 00 00 58 06 00 00 00 00 00 00 00   W.....X.....
029AC0:	59 06 00 00 00 00 00 00 00 5A 06 00 00 00 00 00 00 00   Y.....Z.....
029AD0:	5B 06 00 00 00 00 00 00 00 5C 06 00 00 00 00 00 00 00   [.....\.....
029AE0:	00 06 00 00 00 00 00 00 00 5E 06 00 00 00 00 00 00 00   .....^.....
029AF0:	5F 06 00 00 00 00 00 00 00 60 06 00 00 00 00 00 00 00   _.....`.....
029B00:	61 06 00 00 00 00 00 00 00 62 06 00 00 00 00 00 00 00   a.....b.....
029B10:	63 06 00 00 00 00 00 00 00 64 06 00 00 00 00 00 00 00   c.....d.....
029B20:	65 06 00 00 00 00 00 00 00 66 06 00 00 00 00 00 00 00   e.....f.....
029B30:	67 06 00 00 00 00 00 00 00 68 06 00 00 00 00 00 00 00   g.....h.....
029B40:	69 06 00 00 00 00 00 00 00 6A 06 00 00 00 00 00 00 00   i.....j.....
029B50:	6B 06 00 00 00 00 00 00 00 6C 06 00 00 00 00 00 00 00   k.....l.....
029B60:	6D 06 00 00 00 00 00 00 00 6E 06 00 00 00 00 00 00 00   m.....n.....
029B70:	6F 06 00 00 00 00 00 00 00 70 06 00 00 00 00 00 00 00   o.....p.....
029B80:	71 06 00 00 00 00 00 00 00 72 06 00 00 00 00 00 00 00   q.....r.....
029B90:	73 06 00 00 00 00 00 00 00 74 06 00 00 00 00 00 00 00   s.....t.....
029BA0:	75 06 00 00 00 00 00 00 00 76 06 00 00 00 00 00 00 00   u.....v.....
029BB0:	77 06 00 00 00 00 00 00 00 78 06 00 00 00 00 00 00 00   w.....x.....
029BC0:	79 06 00 00 00 00 00 00 00 7A 06 00 00 00 00 00 00 00   y.....z.....
029BD0:	7B 06 00 00 00 00 00 00 00 7C 06 00 00 00 00 00 00 00   {..... .....
029BE0:	7D 06 00 00 00 00 00 00 00 7E 06 00 00 00 00 00 00 00   }.....~.....
029BF0:	7F 06 00 00 00 00 00 00 00 80 06 00 00 00 00 00 00 00   .....*.....

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029C00:	81 06 00 00 00 00 00 00 00 00 00 00 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C10:	83 06 00 00 00 00 00 00 00 00 00 00 84 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C20:	85 06 00 00 00 00 00 00 00 00 00 00 86 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C30:	87 06 00 00 00 00 00 00 00 00 00 00 88 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C40:	89 06 00 00 00 00 00 00 00 00 00 00 8A 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C50:	8B 06 00 00 00 00 00 00 00 00 00 00 8C 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C60:	8D 06 00 00 00 00 00 00 00 00 00 00 8E 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C70:	8F 06 00 00 00 00 00 00 00 00 00 00 90 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C80:	91 06 00 00 00 00 00 00 00 00 00 00 92 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029C90:	93 06 00 00 00 00 00 00 00 00 00 00 94 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CA0:	95 06 00 00 00 00 00 00 00 00 00 00 96 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CB0:	97 06 00 00 00 00 00 00 00 00 00 00 98 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CC0:	99 06 00 00 00 00 00 00 00 00 00 00 9A 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CD0:	9B 06 00 00 00 00 00 00 00 00 00 00 9C 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CE0:	9D 06 00 00 00 00 00 00 00 00 00 00 9E 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029CF0:	9F 06 00 00 00 00 00 00 00 00 00 A0 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D00:	A1 06 00 00 00 00 00 00 00 00 00 A2 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D10:	A3 06 00 00 00 00 00 00 00 00 A4 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D20:	A5 06 00 00 00 00 00 00 00 00 A6 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D30:	00 06 00 00 00 00 00 00 00 00 A8 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D40:	A9 06 00 00 00 00 00 00 00 00 AA 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D50:	AB 06 00 00 00 00 00 00 00 AC 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D60:	AD 06 00 00 00 00 00 00 00 AE 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D70:	AF 06 00 00 00 00 00 00 00 B0 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D80:	B1 06 00 00 00 00 00 00 B2 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029D90:	B3 06 00 00 00 00 00 00 B4 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DA0:	B5 06 00 00 00 00 00 00 B6 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DB0:	B7 06 00 00 00 00 00 00 B8 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DC0:	B9 06 00 00 00 00 00 00 BA 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DD0:	BB 06 00 00 00 00 00 00 BC 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DE0:	BD 06 00 00 00 00 00 00 BE 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....
029DF0:	BF 06 00 00 00 00 00 00 C0 06 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	.....

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029E00:	C1 06 00 00 00 00 00 00 00	C2 06 00 00 00 00 00 00 00	.. . . . .
029E10:	C3 06 00 00 00 00 00 00 00	C4 06 00 00 00 00 00 00 00	.. . . . .
029E20:	C5 06 00 00 00 00 00 00 00	C6 06 00 00 00 00 00 00 00	.. . . . .
029E30:	C7 06 00 00 00 00 00 00 00	C8 06 00 00 00 00 00 00 00	.. . . . .
029E40:	C9 06 00 00 00 00 00 00 00	CA 06 00 00 00 00 00 00 00	.. . . . .
029E50:	CB 06 00 00 00 00 00 00 00	00 06 00 00 00 00 00 00 00	.. . . . .
029E60:	CD 06 00 00 00 00 00 00 00	CE 06 00 00 00 00 00 00 00	.. . . . .
029E70:	CF 06 00 00 00 00 00 00 00	D0 06 00 00 00 00 00 00 00	.. . . . .
029E80:	D1 06 00 00 00 00 00 00 00	D2 06 00 00 00 00 00 00 00	.. . . . .
029E90:	D3 06 00 00 00 00 00 00 00	D4 06 00 00 00 00 00 00 00	.. . . . .
029EA0:	D5 06 00 00 00 00 00 00 00	D6 06 00 00 00 00 00 00 00	.. . . . .
029EB0:	D7 06 00 00 00 00 00 00 00	D8 06 00 00 00 00 00 00 00	.. . . . .
029EC0:	D9 06 00 00 00 00 00 00 00	DA 06 00 00 00 00 00 00 00	.. . . . .
029ED0:	DB 06 00 00 00 00 00 00 00	DC 06 00 00 00 00 00 00 00	.. . . . .
029EE0:	DD 06 00 00 00 00 00 00 00	DE 06 00 00 00 00 00 00 00	.. . . . .
029EF0:	DF 06 00 00 00 00 00 00 00	E0 06 00 00 00 00 00 00 00	.. . . . .
029F00:	E1 06 00 00 00 00 00 00 00	E2 06 00 00 00 00 00 00 00	.. . . . .
029F10:	E3 06 00 00 00 00 00 00 00	E4 06 00 00 00 00 00 00 00	.. . . . .
029F20:	E5 06 00 00 00 00 00 00 00	E6 06 00 00 00 00 00 00 00	.. . . . .
029F30:	E7 06 00 00 00 00 00 00 00	E8 06 00 00 00 00 00 00 00	.. . . . .
029F40:	E9 06 00 00 00 00 00 00 00	EA 06 00 00 00 00 00 00 00	.. . . . .
029F50:	EB 06 00 00 00 00 00 00 00	EC 06 00 00 00 00 00 00 00	.. . . . .
029F60:	ED 06 00 00 00 00 00 00 00	EE 06 00 00 00 00 00 00 00	.. . . . .
029F70:	EF 06 00 00 00 00 00 00 00	F0 06 00 00 00 00 00 00 00	.. . . . .
029F80:	00 06 00 00 00 00 00 00 00	F2 06 00 00 00 00 00 00 00	.. . . . .
029F90:	F3 06 00 00 00 00 00 00 00	F4 06 00 00 00 00 00 00 00	.. . . . .
029FA0:	F5 06 00 00 00 00 00 00 00	F6 06 00 00 00 00 00 00 00	.. . . . .
029FB0:	F7 06 00 00 00 00 00 00 00	F8 06 00 00 00 00 00 00 00	.. . . . .
029FC0:	F9 06 00 00 00 00 00 00 00	FA 06 00 00 00 00 00 00 00	.. . . . .
029FD0:	FB 06 00 00 00 00 00 00 00	FC 06 00 00 00 00 00 00 00	.. . . . .
029FE0:	FD 06 00 00 00 00 00 00 00	FE 06 00 00 00 00 00 00 00	.. . . . .
029FF0:	FF 06 00 00 00 00 00 00 00	00 07 00 00 00 00 00 00 00	.. . . . .

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02A000:	01 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A010:	03 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A020:	05 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A030:	07 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A040:	09 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A050:	0B 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A060:	0D 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A070:	0F 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A080:	11 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A090:	13 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0A0:	15 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0B0:	17 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0C0:	19 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0D0:	1B 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0E0:	1D 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A0F0:	1F 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   .....
02A100:	21 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   !....."
02A110:	23 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   #.....\$.....
02A120:	25 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   %.....&.....
02A130:	27 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   '.....(.....
02A140:	29 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ).....*
02A150:	2B 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   +.....,.....
02A160:	2D 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   -.....
02A170:	2F 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   /.....0.....
02A180:	31 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   1.....2.....
02A190:	33 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   3.....4.....
02A1A0:	35 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   5.....6.....
02A1B0:	37 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   7.....8.....
02A1C0:	39 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   9.....:.....
02A1D0:	3B 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ;.....<.....
02A1E0:	3D 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   =.....>.....
02A1F0:	3F 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00   ?.....@.....

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```
02A400: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A410: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A420: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A430: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A440: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A450: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A460: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A470: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A480: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A490: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4A0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4B0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4E0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A4F0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
  
02A500: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A510: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A520: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A530: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A540: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A550: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A560: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A570: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A580: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A590: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5A0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5B0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5D0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5E0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
02A5F0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | .....  
student@student-VirtualBox:~/Documents/Group-File-System/csc415-filesystem-westleyc30$
```

- Hex addresses interpreted:
  - 2E (026800): Represents “.” in ASCII, which is the root directory
  - 2E2E (026920): Represents “..” in ASCII, which is the parent directory
  - In addition, after count 336, each hex dump would become empty and just 0s, meaning we are in the leftover remaining free space in our volume