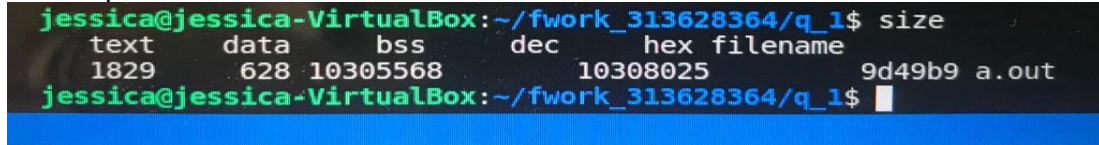


## Explanation of answers to Question 1:

1. Line 5 - stored in BSS or uninitialized data because the array of chars is not initialized only declared in the global area of the program.

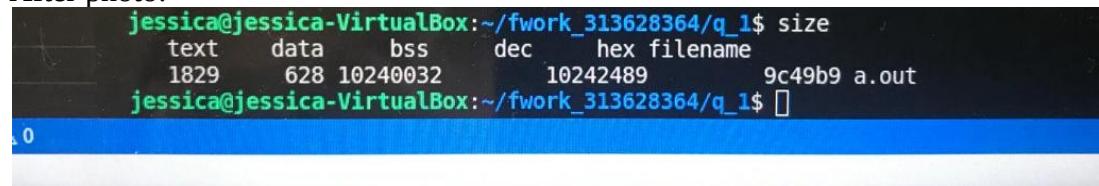
- I used the command size to see where the uninitialized array is allocated. First time I ran size while the char array was part of the program and the second time I ran size when it was without the char array and saw that the amount that was missing was from BSS.

- Before photo:



```
jessica@jessica-VirtualBox:~/fwork_313628364/q_1$ size
text    data    bss      dec      hex filename
1829     628 10305568 10308025 9d49b9 a.out
jessica@jessica-VirtualBox:~/fwork_313628364/q_1$
```

- After photo:



```
jessica@jessica-VirtualBox:~/fwork_313628364/q_1$ size
text    data    bss      dec      hex filename
1829     628 10240032 10242489 9c49b9 a.out
jessica@jessica-VirtualBox:~/fwork_313628364/q_1$
```

2. Line 6 - stored in data segment because there is an array of ints that is declared and initialized in the global area of the code.

- I used the command size to see where the array is allocated. The first time I ran size while the array was part of the program and the second time when the array was not part of the program. When it wasn't part of the program I could see that the data went down meaning less saved in data and that's how I know it was allocated in data.

- Before photo:

- After photo:

3. Line 8 -

4. Line 10 -

5. Line 13 -

6. Line 16 -

7. Line 21 -

8. Line 28 -

9. Line 30 -

10. Line 31 -

11. Line 32 -