

CSC 369 Worksheet 6 Solution

August 20, 2020

1. Done. See link here
2. First, I need to find out how much memory is in my system, and how much is free.
Running the command `free -m`, we have

```
ubuntu@primary:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           981         157         131           0         691         668
Swap:              0              0              0
```

Using this information, I can write that the computer has

- 981 MB of total memory
- 131 MB of free memory

Second, I need to answer if these numbers match my intuition.

It does match my intuition that free memory should be less than total memory.

Notes

- I should ask professor the type of intuition the author was expecting
 - Installing Ubuntu Virtual Machine link: [here](#)
 - Start virtual machine by typing command: `multipass start ubuntu-lts`
3. I need to write a little program `question_3.c` (I will create this instead of `memory-user.c` for recording keeping purposes) that uses a certain amount of memory.

It's criteria are:

- The program should take one command-line argument: the number of megabytes of memory it will use.
- The program should allocate an array.
- The program should constantly stream through the array, touching each entry.
- The program should do this indefinitely, or for a certain amount of time also specified in command line.

For it's solution, please referr to `question_3.c`