

CS 315 01

Balancing Lab sections

SD card reader/writer

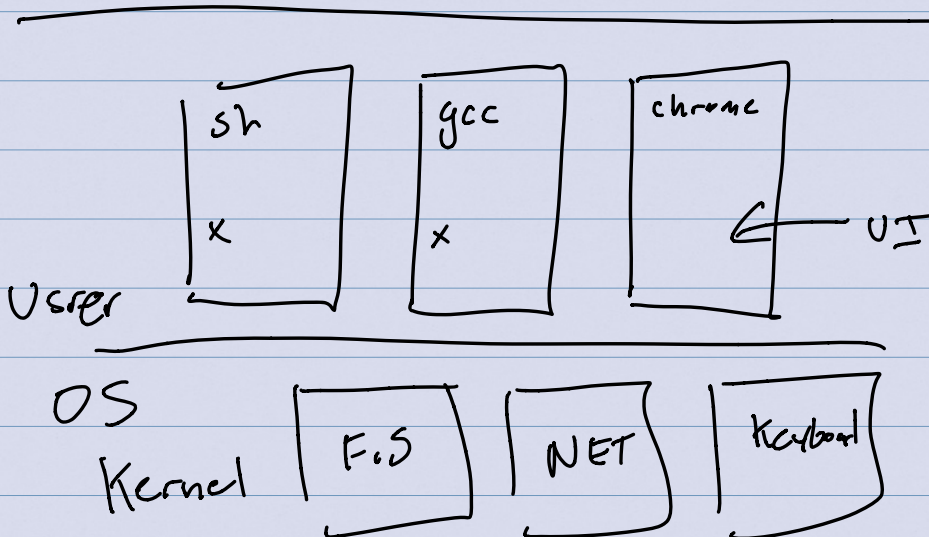
command line / shell basics

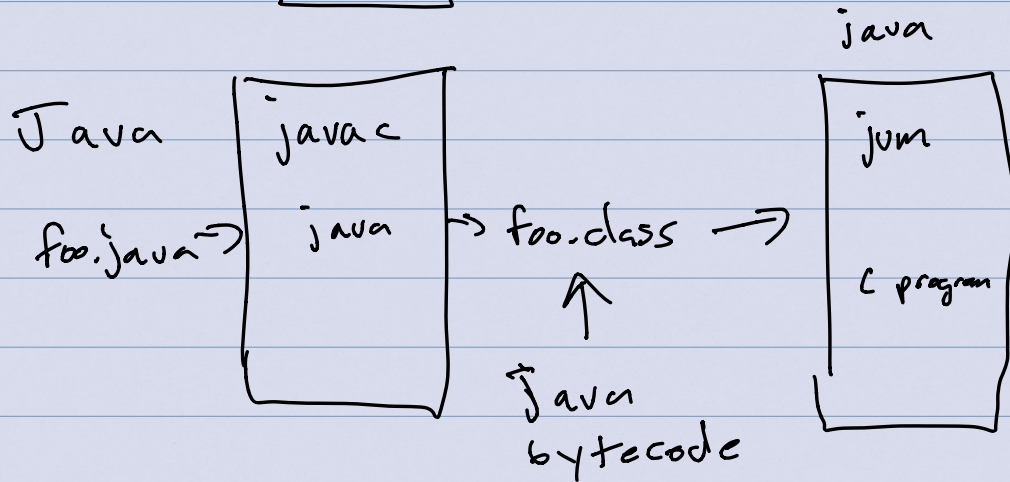
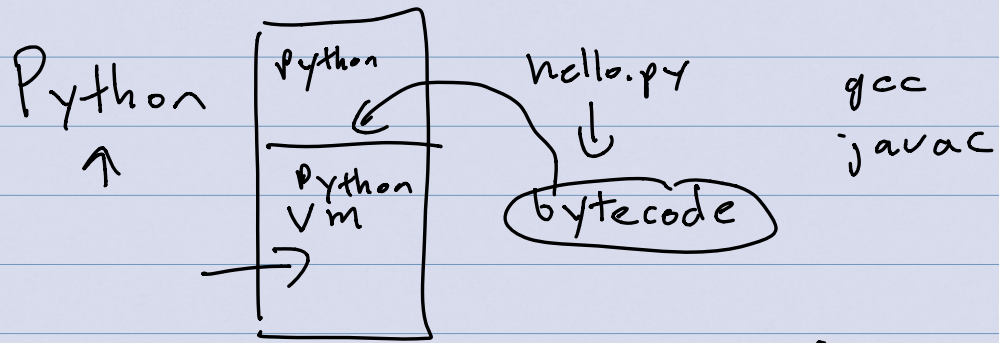
ssh

C program memory layout

File I/O with FILE struct

cat, cp, word count





C code

```
.c
main() {
    int x=1;
    int y=2;

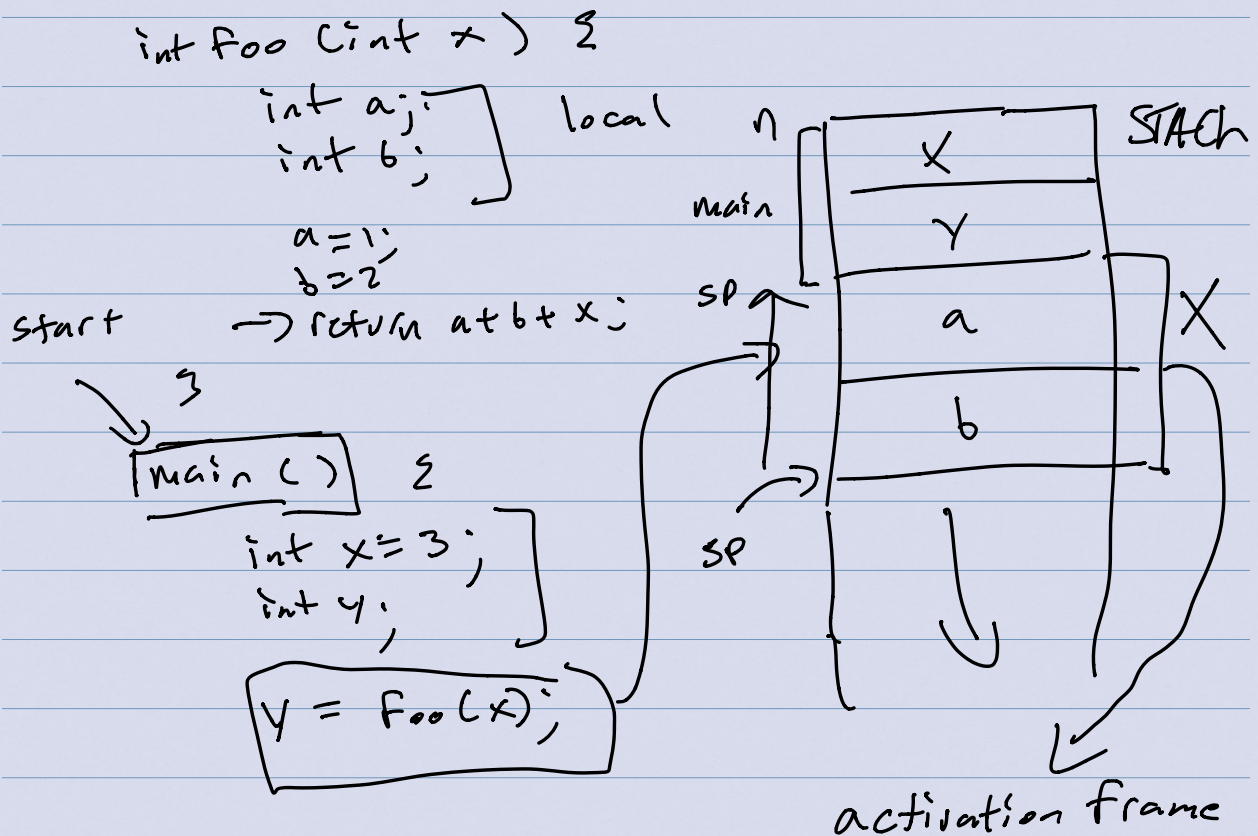
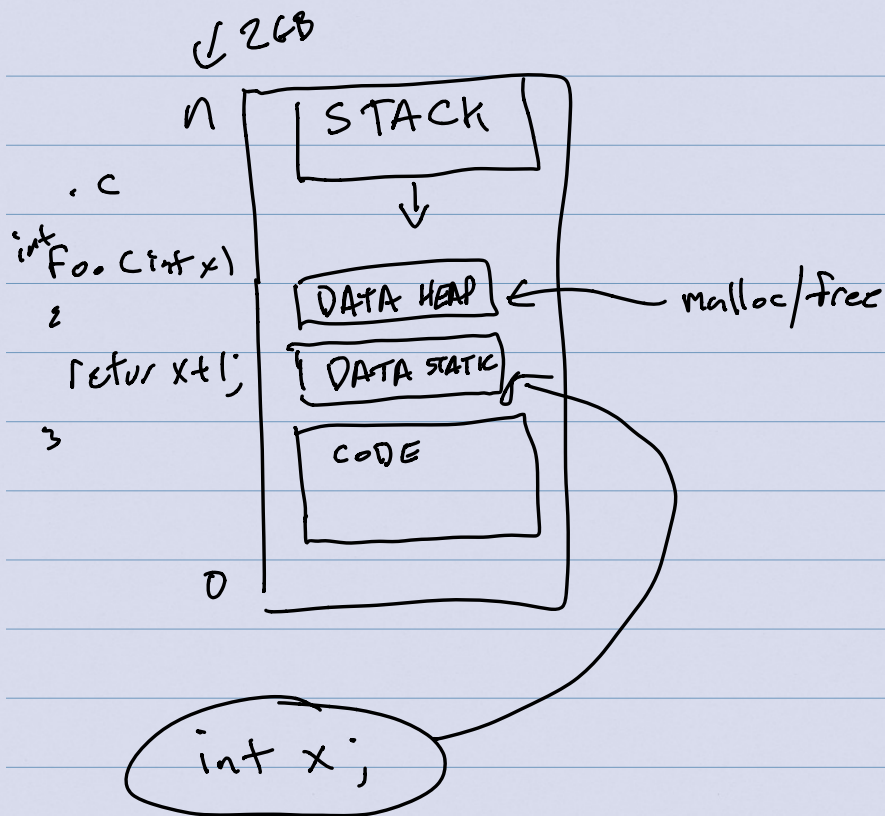
    x = x+y;
}
```

gcc

.o

machine code

```
graph LR; c_code[.c] --> gcc[gcc]; gcc --> machine_code[.o machine code];
```





FILE I/O

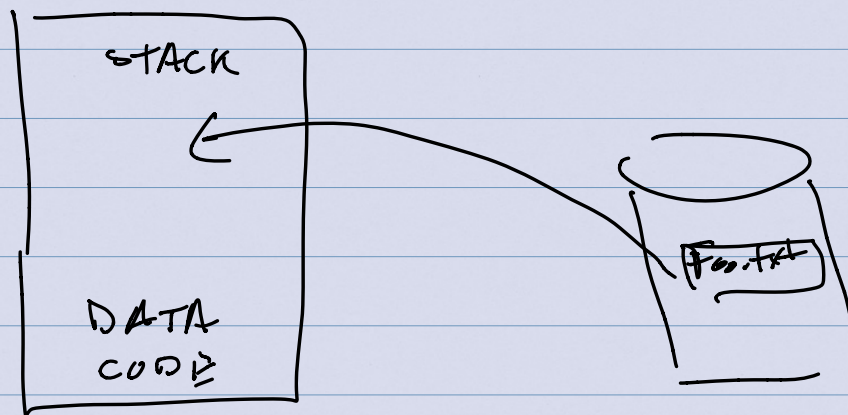
replace input output key value

bytes      8 bit      0-255      256

array

h	e	i	i	o	n
---	---	---	---	---	---

0 1 2



FILE

FIRST → Greg

wcount input  
↑

count the number of words

↓  
The quick brown fox. \n  
↑ ↑  
4 words

whitespace ' ' '\t' '\n'

Foo\n

Goo