



161-01

Memory Allocation

Friday November 15

Agenda

1. Announcements
2. Discussion
3. Lab

Announcements

Token Events:

- Career Panel in Tech.
Monday November 18, 7pm, HSSC A1321
Registration is requested ahead of time
- Other things?

Homework 7 is out

- Start it sooner rather than later
- Any questions about it?

Discussion

Memory allocation

1. We already know how to reserve memory by declaring local and global variables. Why would we use malloc instead of just making variables?
2. If I have a variable `char *p`, what happens when I call `free(p)`?
3. Why do we need to call `free` on all the memory we allocate?

Discussion

Memory allocation

Draw a box and arrow diagram for the following code:

```
int a = 1;
int* b = (int*)malloc(sizeof(int));
int* c = b;
*c = 2;
c = &a;
free(b)
```

Questions about
the reading?

Lab



Wrap up



For next time:

- We'll have time to finish this lab on Monday
- No reading for Monday
- Work on Homework 7!