CS180 - Stacks

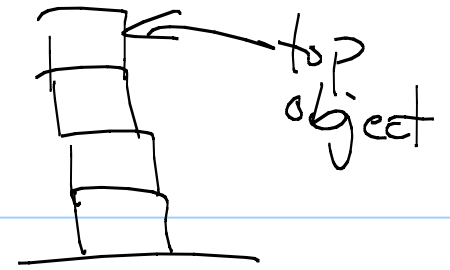## Announcements
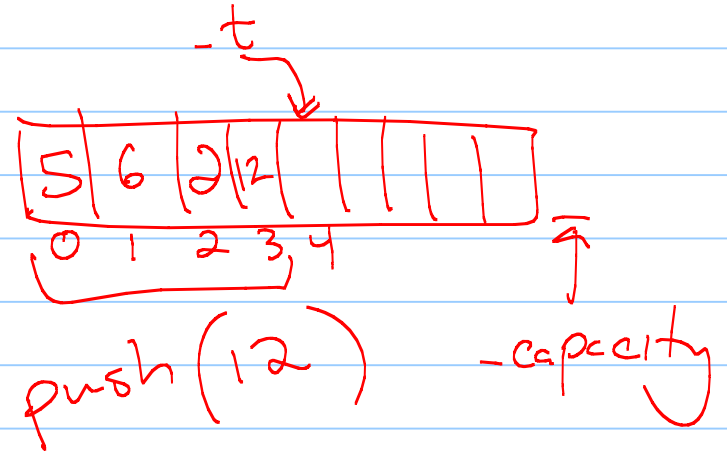
- Boeing scholarships

- Program 2 is up - due Monday
  - no partners
  - checkpoint Friday

- Exam: next Friday (?)

Array Based Stacks

top
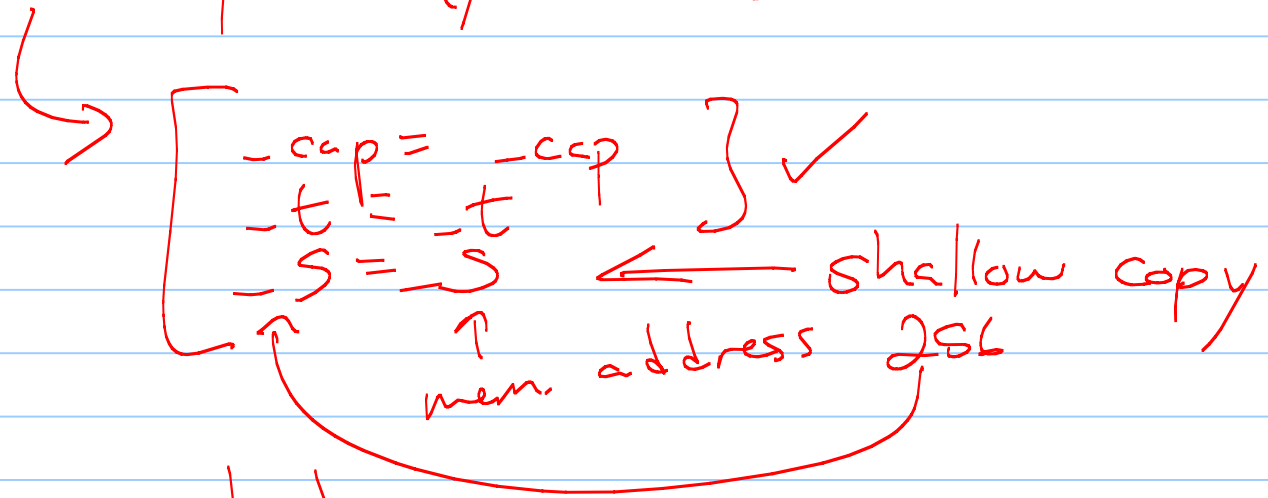object

Data:

int _t;
Object * _s;
int _capacity;

_t

| 5 | 6 | 2 | 12 | | | | | |
| 0 | 1 | 2 | 3 | 4 | | | |

push(12)

_capacity

Functions:

push
pop
top

```
int a, b;
a = (b = 0);
```

~~ArrayStack a(a);~~

```
ArrayStack     mystack (yourstack);
```

$$\begin{bmatrix} \_cap = \_cap \\ \_t = \_t \\ \_s = \_s \end{bmatrix} \checkmark$$

← shallow copy

↑
mem. address 256

```
b = mystack = astack;
```

```
a = a;
```

Linked Stacks

Underlying data will be kept in a
linked list, not an array.

private:

Functions

What to code?