

BA- Discussion #6, 2020-10-09

Announcements

- 3-day weekend (yay!) → Monday is a holiday, Tuesday follows a Monday schedule
→ you therefore have EK125 on Tue, Wed, + Fri
- HW#2 due Tuesday, Oct. 13th by 9 AM
→ must be done individually
- Quiz #3 this afternoon (or tomorrow for those in ~+12 hr. time zones)
→ 4⁴⁰ PM, due at 5⁰⁰ PM
→ 1 page, designed to be 15 min long, 5 min upload
- Class attendance: 0 will be given for students with no camera, muted
- IPP issues: we're working on alternatives, don't fret... email will be sent
- Exam regrade requests: these are coming, there have been delays
- Starting next week: invitations to come to class in person will not be sent out... anyone is welcome to come

Review of Material

- persistent variables
- function stubs
- anything else?

Persistent Variables

```
1 function runsum = running-sum(num)
2 persistent total
3 if isempty(total)
4     total = 0;
5 end
6 total = total + num;
7 runsum = total;
8 end
```

→ to make work for vectors + matrices?

A: line 6 will become ...

total = total + sum(sum(num));

*** DO NOT MAKE YOUR PERSISTENT VARIABLE THE SAME AS YOUR FUNCTION'S OUTPUT ARGUMENT!**

Modular Programming + Function Stubs

See attached programs

Debugging

```
+ dbstop
+ dbstep
+ dbcont
+ echo
```

remember Devin's example

Live Scripts

- super useful for integrating code, text, equations, and images!
→ helps keep you organized
→ can break up into sections and work through one section at a time
→ never to MATLAB → some of your older professors may not have seen these
- more importantly, Live Scripts are AWESOME