MA111: Contemporary mathematics

Schedule:

- Exam 2 and 3 are returned.
- Written project will be very short due on Friday.
- Mini-Exam 4 is in class, Thu Dec 4th, 2014
- Exam 4 is Tue Dec 16th, 2014 from 3:30pm to 5:30pm

Today we practice critical path analysis and find its critical failure

Important concepts

- **Tasks** have a **duration**
- Tasks have **dependencies** that must be done first
- The **schedule** lists the start time of each task
- Simplest way to schedule is a **priority list**- do them in this order
- The **float time** is the difference between the earliest the task could be started (after dependencies are finished) versus the latest the task could be started (to finish "on time")

Calculating the float time

- Earliest start time: maximum of the earliest finished times of the dependencies (0 if no dependencies)
- Earliest finish time: earliest start time plus duration

  Use those two rules to calc all EST and EFT from left to right
- Latest finish time: minimum of the latest start times of tasks that depend on it ("at the end" if nothing depends on it)
- Latest start time: latest finish time minus duration

  Use those two rules to calc all LST and LFT from right to left (backwards)
- Float time: LFT minus EFT or LST minus EST (same number)

  The smaller the float time, the higher priority the task should be

Exit Quiz