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Today

- logistics
- motivation and goals
Logistics (I)

Lecture:
- cs473: Algorithms
- TR2-3:15, DCL 1310
- https://courses. engr. illinois. edu/cs473/fa2019/

Instructors:
- Prof. Michael A. Forbes (miforbes)
- Prof. Chandra Chekuri (chekuri)

TAs:
- Shant Boodaghians (boodagh2)
- Mitchell Jones (mfjones2)
- Yipu Wang (ywang298)

Office Hours (lounge between Siebel 3304 and 3232): M3, M5, T12:30, T3:30, F1
Logistics (II)

Resources:
- webpage: course policies, course calendar, problem sets, links to other resources
- gradescope: pset submissions, pset return, grades
- piazza: announcements, student forum, (privately) contacting course staff
- videos: lectures are recorded

Theorem

Reading the course webpage makes your more knowledgeable.

Proof.

It’s on the course webpage.

Corollary

Frequently checking the webpage/piazza makes you even more knowledgeable.
Logistics (III)

Grades:
- weekly problem sets: 30%
  - due W10, on gradescope
  - no late psets — lowest pset scores are dropped (see webpage)
  - collaboration: pset0 is done individually, later psets may be done in groups of ≤ 3 students (see webpage)
- integrity: see webpage
- midterms: 45% (2 × 22.5%)
  - 2019-10-07 7-9:30pm
  - 2019-11-11 7-9:30pm
- final: 30% (comprehensive)

pset0:
- posted!
- due next week
- complete and submit individually
Prerequisites:

- cs173 (discrete math), cs225 (data structures), cs374 (algorithms and models of computation)
- OR sufficient mathematical maturity
  - writing formal proofs of correctness
  - algorithmic thinking: recursion, reductions
  - basic data structures: balanced binary search trees, priority queues, heaps, etc
  - basic graph algorithms: reachability (DFS/BFS), undirected vs directed, strong connected components, shortest paths and Dijkstra’s algorithm, minimum spanning trees
  - probability: random variables, expectation, variance
  - models of computation
References:

- course materials:
  - slides
  - board work
  - auxiliary materials — a different perspective
- additional references (see webpage)

Laptops:

- you are adults, but laptops can distract other students
- policy: if your screen does not lie flat on a desk/lap, please sit in the back half of the lecture hall
  - laptops do not lie flat
  - tablets are probably okay
  - smartphones are probably not okay
  - some students have accommodations
Motivation and Goals

*insert boardwork here ...*
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