CSE 12 – Basic Data Structures and Object-Oriented Design
Lecture 20

Greg Miranda, Spring 2021

This lecture is being recorded

Announcements

No collaboration

- Quiz 20 due Monday @ 12pm
- PA7 due Wednesday, May 26 @ 11:59pm (closed)
- Survey 7 due tonight @ 11:59pm
- Exam 2 – Week 8
  - Released Friday 5/21 @ 2pm
  - Due Saturday 5/22 @ 6pm
  - Topics:
    - Cumulative
    - Big topics – lectures 9 - 17
      - Big O, Big Theta run-time analysis
      - Sorting algorithms
      - Hash tables/maps

Topics

- Heaps

- Questions on Lecture 20?

Max Heap (draw the picture and array)

- Assume the key and value are identical for this example

- Draw the picture and the array for the following:
    - Add the following elements to the max heap (in this order):
        - 5, 10, 15, 25, 30, 35, 40
    - Call poll() twice
        - What elements were returned?