ECS 122A Algorithm Design and Analysis

Instructor: Qirun Zhang

Agenda

- Quicksort
- Analysis of Quicksort

Course updates

- Change of office!
 - Moved to 3027 Kemper
- · Homework
 - The deadline is strict.
 - No technical issues!
 - If you do have one, try to figure it out early.

Heapsort

```
Heapsort(A, n)
     BuildHeap(A);
     for (i = n downto 2)
          Swap(A[1], A[i]);
          Heapify(A, 1, i-1);
```

Quicksort

- Quicksort
- · A randomized version of quicksort
- The worst-case analysis of quicksort
- · The average-case analysis of quicksort

The End