

Lecture 16: Quickest Sorting

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Exam 1 Reminders

- Review Session is tonight at 6:30 in Olsson 228E
- I have office hours after class today and Thursday at 3:30
- Kinga will be in Small Hall Friday morning, 10-11:30am
- If you have topics you want me to review in Friday's class, email me

Last class: Sorting Cost

```
(define (best-first-sort lst cf)
  (if (null? lst) lst
      (let ((best (find-best lst cf)))
        (cons best (best-first-sort (delete lst best)
                                   cf)))))

(define (find-best lst cf)
  (if (= 1 (length lst)) (car lst)
      (pick-better cf (car lst) (find-best (cdr lst) cf))))
```

The running time of best-first-sort is in $\Theta(n^2)$ where n is the number of elements in the input list.

This is wrong!