Announcements

- Reading Chapter 19
- Midterm #2 was returned
Review of Midterm #2

<table>
<thead>
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<td>4.88</td>
<td>6.23</td>
<td>5.55</td>
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Mean: 67.4  
StdDev: 18.3
Security

- **security vs. protection**
  - protection provides a mechanism to control access to resources
  - security also includes external features such as users

- **security requires precluding unauthorized**
  - access to data
  - modification of data
  - destruction of data

- **several major types of security**
  - physical: must protect access to resource itself
    - if you have physical access to a machine, you can break security.
  - users: if a user gives away access (or info) computer security if useless
  - software: OS and system software must provide protection
Who do you trust?

- It’s easy to get paranoid
- Do I trust a login prompt?
- Do I trust the OS that I got from the vendor?
- Do I trust the system staff?
  - should I encrypt all my files?
- Networking
  - do you trust the network provider?
  - do you trust the phone company?
- How do you bootstrap security?
  - always need one “out of band” transfer to get going