Computer Ethics

Walter C. Daugherity
Department of Computer Science
Texas A&M University
http://faculty.cs.tamu.edu/daugher/
daugher@cs.tamu.edu
Introduction

• Defining “computer ethics”
  – Maner
  – Johnson
  – Moor
  – Wiener
  – Gotterbarn
Example Topics in Computer Ethics

- Computers in the workplace
- Computer crime
- Privacy and anonymity
- Intellectual property
- Professional responsibility
- Globalization
- The metaethics of computer ethics
New Textbook Chapter

• Which definition?
• Emphasis
• Topics
Computers and Privacy

• Informational
• Physical
• Decisional
• Proprietary
Privacy versus Social Utility

- Employer, insurer
- Credit and health records
- Data mining
- Creative middle way
Ownership of Computer Software

- U. S. Constitution
- Labor theory
- Stallman and Moglen
- UNIX®
- Copyrights and patents
## Line-Drawing and Computer Abuse

<table>
<thead>
<tr>
<th>Feature</th>
<th>Negative</th>
<th>Test Case</th>
<th>Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attitude</td>
<td>Malicious</td>
<td></td>
<td>Benign</td>
</tr>
<tr>
<td>Damage</td>
<td>Severe</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Expense</td>
<td>Great</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Social Value</td>
<td>None</td>
<td></td>
<td>Great</td>
</tr>
</tbody>
</table>
Mitnick Cases

- 1981 – Pacific Bell
- 1983 – Pentagon
- TRW – warrant disappeared
- 1987 – telephone credit card numbers
- 1987-88 – DEC
- 1989 – sentenced, addiction
- 1992 – commercial database, California DMV, Motorola, Digital Equipment Corporation, Novell, Nokia, Sun Microsystems, and the University of Southern California
- Tsutomu Shimomura
Computers and Moral Responsibility

• Therac-25
• Corporate
  – EULA
• Individual
• Nissenbaum