**Lecture 3b-Chapter 9 Professional Ethics review**

1. The principles and clauses in the SE code of ethics address every ethical issue a software engineer may face.

False

Can’t think of every possible ethical issue

1. What is whistleblowing?

Breaking rank to disclose danger to the public after using all other avenues first.

1. What harms does it cause?

Ruins reputation, loss of job

1. What benefits does it provide?

Prevents harm, hold people accountable, promote ethical behavior

Whistleblowing scenario (~5 min)

<http://www.youtube.com/watch?v=oU1zBobOtSY>

Asked for deadline for disclosure, clarified what actions will be taken.

1. Moral responsibility is an exclusive type of responsibility

Exclusive – only one person shares the responsibility

False

1. What are the three forms of exclusive responsibilities?

1.) Role

2.)

3.)

1. Give an example where one is morally responsible to do something.
2. Responsibility to prevent harm
3. Witness a break in, obligated to call neighbor or police
4. According to Richard DeGeorge, even if a whistleblower does not have documented evidence of a firm's role in causing harm, he or she may still have a moral duty to blow the whistle.

False

Yes to 5 conditions

1. Harm to public?
2. Reported internally
3. All possible channels
4. Have documented evidence
5. Sure that blowing whistle will prevent harm
6. According to Richard DeGeorge’s, what conditions must be met before one is morally responsible to blow the whistle?

Above

1. Michael McFarland argues that a team of engineers should be held to a higher level of moral responsibility than ---------------------------------------

Individual members

More strength as a team than as an individual

Space shuttle disaster (~ 4min)

<http://www.youtube.com/watch?v=5aNCLBA771w>

1. Space exploration involves high risks. Are any of these groups morally responsible for the space shuttle Challenger explosion:

Morton Thiokol management,

Changed mind to disclose

NASA management,

Knew O-rings faulty but went ahead

Carelessness

Morton Thiokol engineers.

Raised concern, management changed mind at last minute

Short Answer questions

1. Company X hires company Y to develop a service website. Company Y hires a private contractor, Gina, to provide instant messaging software for the website. Gina is not responsible for the security of the site. Due to time constraints, company Y implemented a simple security protocol that allows all messages to be sent non-encrypted. Gina discovers that and raised her concern to her supervisor. She was told the website will be delivered to company X without telling them about her concern. She was also reminded that she signed a confidentiality agreement that forbids her from talking to anyone about the product she worked on for them.

What should Gina do? What would you do?