Preparing For and Writing the Exam

Agenda

- How to solve and answer in-depth examination tasks

  – A structured approach
  – Formulating answers

Why This Lecture?

- Examination goals differ
- We want students to reach the goals
- We want students to get better marks
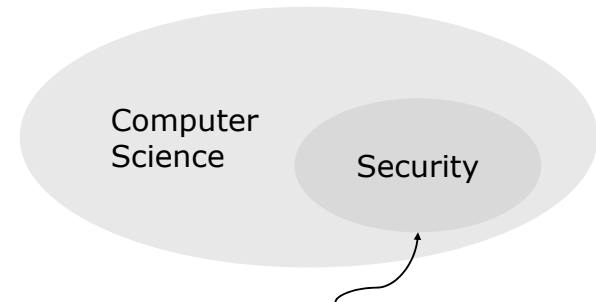
An Example

Question X
Computer networks can be both wired and wireless. Compare wired and wireless networks from a security point of view. Describe and motivate significant differences. Give an example of a relevant attack form possible both in wired and wireless networks and highlight differences both from the attacker's and the defender's point of view.

A Structured Approach

1. What is the context?
2. What are the deliverables?
3. What do I know about this?
4. How do my pieces of knowledge relate to eachother?
5. Conclude and answer

The Context

- The context is network security from attacker's and defender's point of view

Only answer within this context!

The Deliverables

Question X
Computer networks can be both wired and wireless. <u>Compare</u> wired and wireless networks from a security point of view. <u>Describe and motivate</u> significant differences. <u>Give an example</u> of a relevant attack form possible both in wired and wireless networks and <u>highlight differences</u> both from the attacker's and the defender's point of view.

The Deliverables

❑ Compare
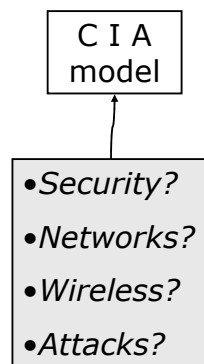❑ Describe and motivate
❑ Give an example
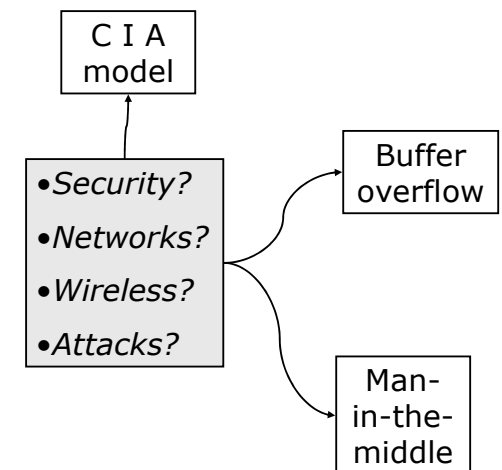❑ Highlight differences

What Do I Know About This?

Brain-storming

What Do I Know About This?

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

What Do I Know About This?

C I A model

↑

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

What Do I Know About This?

C I A model

↑

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

Buffer overflow

Man-in-the-middle

What Do I Know About This?

War driving

C I A model

Buffer overflow

Ad-hoc networks

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

Man-in-the-middle

What Do I Know About This?

War driving

C I A model

Buffer overflow

Ad-hoc networks

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

Eaves-dropping

Man-in-the-middle

What Do I Know About This?

War driving

C I A model

Remember context!

Buffer overflow

Ad-hoc networks

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

Eaves-dropping

Man-in-the-middle
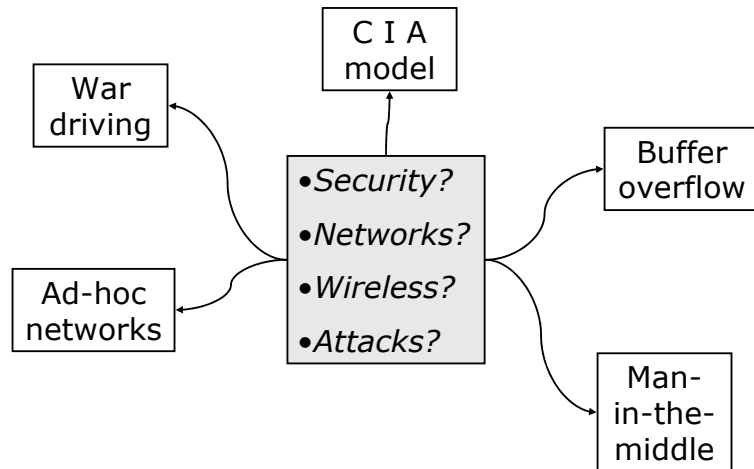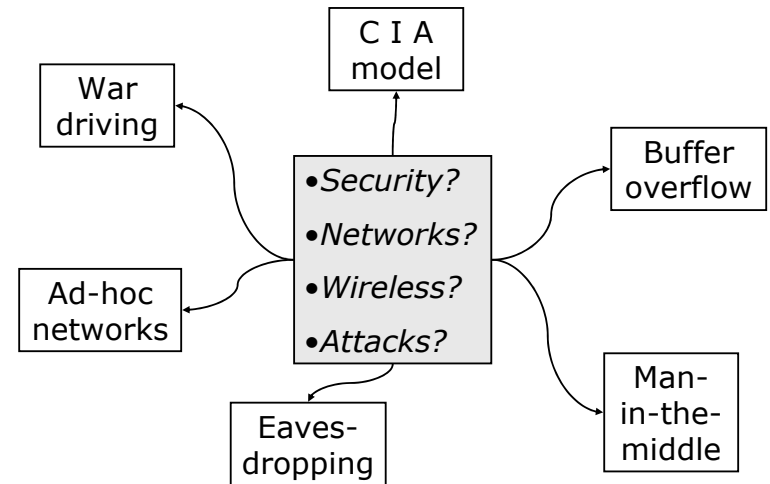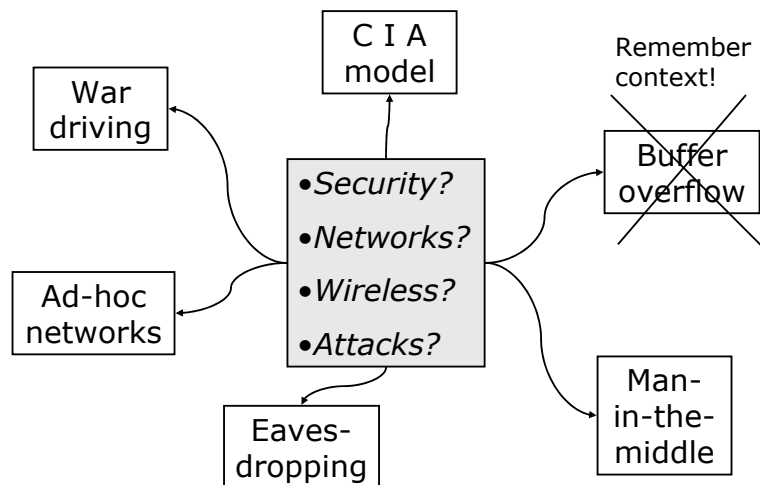
Relate Pieces of Knowledge

War driving

C I A model

Ad-hoc networks

- *Security?*
- *Networks?*
- *Wireless?*
- *Attacks?*

Eaves-dropping

Man-in-the-middle

Find connections!
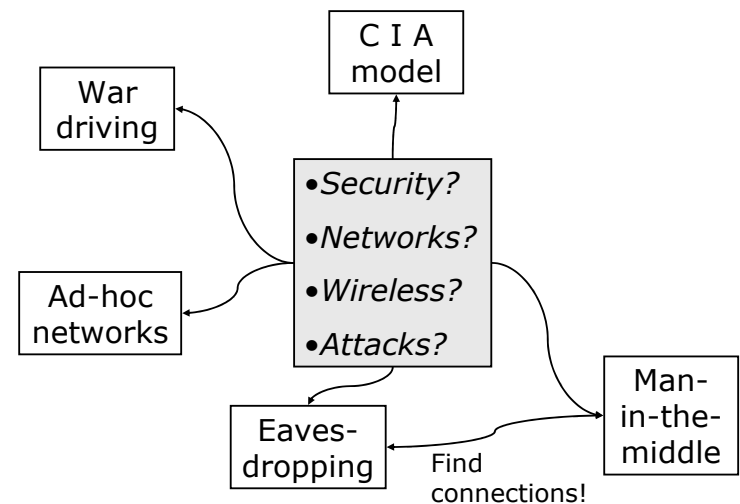
Conclude and Answer

- Write structured and clear answers
- Avoid strong statements
- Justify your statements
- Give complete answers
- Make use of examples

Detailed Info on the Web

- Download and print

  "Approaching and Answering In-Depth Exam Questions"

  from the course webpages