Exercise - Exam Preparation

- 1. Which Goals of Protection do you know? Describe what they mean!
- 2. Describe the terms vulnerability, attack, threat and risk.
- 3. What can be done to avoid using environment variables?
- 4. What is a Buffer Overflow and how can it be used to exploit a program?
- 5. Which methods for input validation do you know? Use examples!
- 6. Which C functions are insecure and what are the secure alternatives?
- 7. What is randomness and how can you get real random numbers?
- 8. Which symmetric and asymmetric encryption algorithms were discussed in the lecture? Provide an example for every algorithm with real numbers!
- 9. How can you store a password in a secure way?