Notes part 1

Professional C++. Ch. 1. A Crash Course in C++ and the Standard Library

- Modularity: import and export module module linterface file instead of a .h header file and .cpp source code file (p. 5)
- preprocessor directives (pp. 5-7)
- namespaces (pp. 9-11)
- literals (pp. 11-12)
- variables (pp. 12-14)
- std:byte in <cstddef> differentiate semantically from char (p. 14)
- C++ has no basic string type use std::string in <string>
- Use std::numeric_limits in in stead of e.g. #defines INT_MAX. (pp. 14-15)
- std::cin << format(...) og std::cout << format(...) for formatting of I/O to console/terminal (p. 15)
- Follow up later: zero initialization and type casting (pp.15-16)
- std::isnan() and std::isinf() in <cmath> (p. 16).
- Operator table (p.16-18)
- Use strongly-typed enum class instead of type-unsafe enum (pp. 19-21)
- Conditional Operator e.g. cout << (i>2?"yes":"no") [pp. 25-27]
- 3-way comparison: strong_ordering::less, strong_ordering::greater og strong ordering::equal (pp. 27-28)
- Hvor 3-vejs sammenligningen muligvis ikke har et entydigt resultat, men hvor sammenligningerne stadig har en slags "ordning": std::weak_ordering::less,
- std::weak ordering::equivalent eller std::weak ordering::greater.
- Eller for float: partial_ordering::less, partial_ordering::greater,
 partial ordering::equal og partial ordering::unordered (ved std::isnan()).
- Follow up later: <compare>
- auto instead of var (p. 30)
- Attributtes for functions/subrutines (p. 30-33).
- array-type in <array> requires two parametres e.g. array<int,3>, that signify an int array with a size of 3 (pp. 33-35)
- iteration is simpler that with older C array types as int[3].
- std::vector in <vector> a variable array (p. 36)
- std::pair in <utility>. (p. 36)
- std::optional in <optional>. (p. 37)
- Ranged-based for loop (p. 39-40)
- Initializer Lists (p.40)
- Classes (s. 41-44)
- Pointers avoid where possible (s. 50-52)
- use nullptr instead of NULL (pp. 52-53)
- const (p. 53-58; 68-69)
- References [-&] (p. 58-68)
- Exceptions (p. 69-70)
- Type (p.70-73)