Notes part 1

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

- Access std:byte in <cstddef> differentiate semantically from char.
- C++ has no basic string type use std::string in <string>
- std::cin << format(...) og std::cout << format(...) for formating of I/O to console/terminal
- Use std::numeric limits in in stead of e.g. #defines INT MAX.
- Follow up later: zero initialization and type casting.
- std::isnan() and std::isinf() in <cmath> (p. 16).
- Operator table (p.16-18).
- Use strongly-typed enum class instead of type-unsafe enum.
- Modularity: export module in .cppm *modue linterface file* instead of a .h *header file* and .cpp *source code file*.
- Conditional Operator e.g. cout << (i>2?"yes":"no").
- 3-way comparison: strong_ordering::less, strong_ordering::greater og strong_ordering::equal.
- 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
- 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.
- iteration is simpler that with older C array types as int[3].
- std::vector in <vector> a variable array.
- 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
- const (p. 53-58; 68-69)
- References [-&] (p. 58-68)
- Exceptions (p. 69-70)
- Type (p.70-73)