Request and Suppress Member Functions

- If necessary, the compiler generates many special member functions:
 - Default constructor and destructor
 - (copy/move) constructor, (copy/move) assignment operator
 - Operator new and delete for object and C arrays of objects
- With the key words default and delete you can guide the creation or suppression of these special member functions.
- A with default declared member function enforces the compiler to generate it, a with delete declared member function produces an error, when used.

The programmer defines the interface, the compiler provides the implementation.

Request Member Functions: default

- The compiler generates the request member functions due to the following characteristics:
 - They have public access rights and are not virtual.
 - The copy constructor and copy assignment operator get constant Ivalue references.
 - The move constructor and move assignment operator get non constant rvalue references.
 - The member functions are not declared explicit and have no exception specification.

Suppress Member Functions: delete

- By delete you can define pure declarative, that a automatically generate member function from the compiler is not available.
- In combination with default you can define classes, for which their objects
 - Can not be copied.
 - Can only be created on the stack.
 - Can only be created on the heap.

