

Final Exam

- Time: 2:00 pm – 3:40 pm, Dec. 18th, 2025
- You **must** attend the exam in the classroom
- Location
 - ZhongYuan411: student numbers from 521370990009 to 524370910150
 - ZhongYuan412: student numbers from 524370910152 to 723370990063
- Closed book and closed notes
- No electronic devices are allowed
 - These include laptops and cell phones
 - We will show a clock on the screen

Final Exam

- Written exam
 - A number of questions that only require you to provide short answers
 - A few questions that require you to write code on the paper. Be clear!
- Bring your student ID card for verification
- Abide by the **Honor Code!**

Topics

- ADT and class basics
- Subtype and inheritance
- Virtual function
- Abstract base class (interface)
- Representation invariants
- Dynamic memory management and dynamic array
- Constructor taking default arguments and destructor
- Deep copy: copy constructor, overloaded assignment operator
- Dynamic resizing
- Linked list
- Template
- Container of pointers: one invariant and three rules
- Polymorphic container
- Operator overloading
- Stack and queue

Slide set 13 to Slide set 23
(Slide sets 24 not included)