What did we learn in Lab 04?

- What kinds of code compiler generates for templates?
- Why do we need to declare the destructor as virtual in parent class?
- Explain protected inheritance? `class A : protected B`
- What is pure virtual function? What is it useful for?
What we are going to learn in Lab 05?

- What are the advantages of linked list compared to arrays?
- What are the disadvantages of linked list compared to arrays?
- What is sentinel node?
- Compute and compare the additional memory space required by a linked list of length $n$ and an array of length $n$.
- Analyze this new data structure: A linked list in which every node consists of an array of size $k$ in which we store data. We store as much as we can ($k$ data item) in the first node. If we need more space we create another node and store data in the new node. What are the order of operation like insert and delete in this data structure? In which situations this data structure is useful?