

CISC124 – Today's Topics		
<ul style="list-style-type: none"> ▪ Linked lists examples ▪ Generic linked list ▪ Inner iterator classes 		
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Single-link linked list		
<ul style="list-style-type: none"> ▪ Collection of DNode objects connected by a single reference. Use of external DNode class to instantiate objects of the collection ▪ Add, delete, insert, search by content, retrieve by index a DNode at the "Head" of the list → Simple Operation ▪ Same operations on a DNode in the middle or end of the list → not very efficient 		
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Double-link linked list		
<ul style="list-style-type: none"> ▪ Collection of DNode objects connected by two references. Inner DNode class to instantiate the objects of the collection ▪ Add, delete, insert, search by content, retrieve by index a DNode at the "Head" or "Tail" of the list → Simple Operation ▪ Same operations on a DNode in the middle of the list → more efficient than in a single-link linked list 		
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Generic double-link linked list		
<ul style="list-style-type: none"> ▪ Add, delete, insert, search by content, retrieve by index a Dnode<T> ▪ Use of iterator objects to improve the efficiency of these operations in some processing contexts 		
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wildcard base types		
<ul style="list-style-type: none"> ▪ The following are allowed specifications when instantiating generic classes with a <T> parameter: <ul style="list-style-type: none"> ▪ <?> means that any class can be an argument for the T parameter (example: ArrayList<?>) ▪ <? extends T> means that the argument class must be a descendant class of T (example: ArrayList<? extends Vehicle>, possible instantiation: ArrayList<Bus>) ▪ <? Super T> means that the argument class must be an ancestor class of T (example: ArrayList<? super IOException>, possible instantiation: ArrayList<Exception>) 		
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