## Workflow

Name:	04.01
Points:	3 pts
Deadline:	03/15
Prerequisite(s):	none

## Main

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1.	It wil	reate a header file named <b>w0401.h</b> that defines a generic class named <i>Set</i> that inherits the interface <i>SetInterface</i> , will represent a set with an infinite capacity, where a set is an unordered collection of distinct objects. The class ust contain	
		a private generic $Node$ pointer field named $data$ .	
		its special member functions that should be public and the default value of $data$ is null.	
		a public overridden ${\tt Insert}()$ method. It adds the parameter to the set if the parameter is not already in the set.	
		a public overridden $\texttt{Remove}()$ method. It removes the parameter from the set if the set is not empty and the parameter is in the set.	
		a public overridden ${\tt IsEmpty}()$ method. It returns true if the set does not have any members; otherwise, it returns false.	
		a public int constant method named Size() that takes no parameters. It returns the size of the set.	

## Test

2. Create a cpp file named **main.cpp** that creates a *Set* object and test each of its methods. The outputs of the methods that are not void must be displayed.

of the set all enclosed in curly braces with each element separated by a comma.

□ a public overridden Contains() method. It returns true if the parameter is in the set; otherwise, it returns false.
□ a public string constant method named ToString() that takes no parameters. It returns a string of the elements