

LABORATORY 6 – LAB ACTIVITY

1. Make sure you do not have any memory leaks in your program.
2. Implement the following:
 - a. A class template *Comparator*, which has a **pure virtual function**, *compare*, that receives two <your entity> elements (Dog/Movie/Tutorial/etc...); the function return type is **bool**.
 - b. Two classes which inherit from *Comparator* and implement the *compare* function, in different ways (e.g. *ComparatorAscendingByTitle*, *ComparatorDescendingByAge*, etc...)
 - c. Implement a generic sort function, which receives a *DynamicVector* and a *Comparator* (**pointer or reference**, for polymorphism) and sorts the elements in the vector, according to the *compare* function in the *Comparator*.
 - d. Test the function using a *DynamicVector* of objects of type <your entity>.

Obs: Lecture 6 contains details about polymorphism and pure virtual functions.