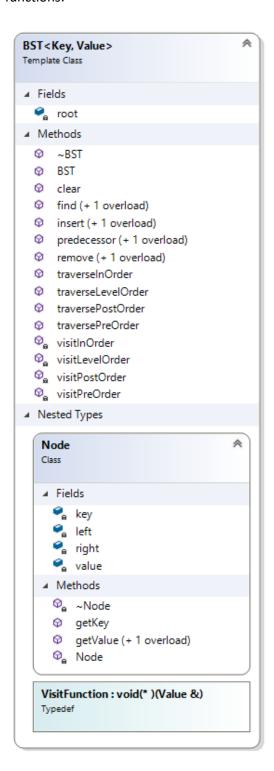
Assignment Sheet

Course, instructor name &	GAME255 – Data Structures and Design Patterns				
contact info	Jean – Paul Amore, jean-paul.amore@humber.ca				
Assignment name	Lab 5 – BST Traversal				
Grade value	6% (Rubrics attached)				
Due date	Week 10				
Individual or group assignment	Individual. You may consult with your peers on this assignment,				
	but you are not allowed to share your work or submit work that is				
	not yours. Violation of this may result in an academic misconduct				
	penalty.				
Submission instructions	Submit your C++ file BST.h on Blackboard				
Targeting these learning	hese learning • Be able to use and build vectors, list, stacks, queues, trees and				
outcomes from course outline	graphs.				

Assignment Instructions

Using the Microsoft Visual Studio project provided, complete the functionality for the Binary Search Tree class BST, based on the comments supplied. The BST class contains the following fields and member functions:



Assignment Instructions

Complete the functionality for the following fields and methods:

- void visitPreOrder(Node*, VisitFunction)
- void visitPostOrder(Node*, VisitFunction)
- void visitLevelOrder(Node*, VisitFunction)

Once you complete the functionality for the BST class, ensure that it executes with the supplied main() function.

SAMPLE OUTPUT

You can review the output by running the executable in the OUTPUT folder.

Sorting players by name:	Lucy: 33		
Abe: 65	Walter: 66		
Alice: 95	Abe: 65		
Bob: 53	Joe: 67		
Bubba: 18	Alice: 95		
George: 98	George: 98		
Jim: 23	30 ccolge.		
Joe: 67			
Lucy: 33	Post-Order Traversal		
Sally: 75	Bubba: 18		
Walter: 66	Lucy: 33		
	Abe: 65		
In-Order Traversal	Joe: 67		
Bubba: 18	Walter: 66		
Jim: 23	Bob: 53		
Lucy: 33	George: 98		
Bob: 53	Alice: 95		
Abe: 65	Sally: 75		
Walter: 66	Jim: 23		
Joe: 67			
Sally: 75			
Alice: 95	Level-Order Traversal		
George: 98	Jim: 23		
	Bubba: 18		
	Sally: 75		
Pre-Order Traversal	Bob: 53		
Jim: 23	Alice: 95		
Bubba: 18	Lucy: 33		
Sally: 75	Walter: 66		
Bob: 53	George: 98		
	Abe: 65		
	Joe: 67		

NOTE: The main() function should not be modified for any reason.

Rubrics

	CRITERIA	0 POINTS	1 POINT	2 POINTS	3 POINTS	4 POINTS	5 POINTS
1.	LOGIC	Did not complete assigned work	Does not demonstrate ability to use logical process	Poorly demonstrate s ability to use logical process	Somewhat demonstrate s ability to use logical process	Demonstrate s ability to use logical process	Demonstrate s exceptional ability to use logical process
	EFFICIENCY	Did not complete assigned work	Does not demonstrate any efficiency	Poorly demonstrate s efficiency	Demonstrate s some efficiency	Demonstrate s efficiency	Demonstrate s exceptional efficiency
3.	FUNCTIONALITY	Did not complete assigned work	Barely any code is functional and accurate	Parts of code are functional, but are not accurate	Some code is functional and accurate	Most code is functional and accurate	All code is functional and accurate
4.	PROCESS & ORGANIZATION	Did not complete assigned work	Very confusing code indentation and/or algorithms	Somewhat confusing code and/or algorithms	Satisfactory code and/or algorithms, but could be improved	Good code and/or algorithms	Excellent code and/or algorithms
5.	TEST CASE	Did not complete assigned work	Does not compile	Barely any code functions with test case	Partially functions with test case	Mostly functions with test case	Fully functions with test case
6.	TIMELINESS	Did not submit or submitted five, or more days late	Submitted four days late	Submitted three days late	Submitted two days late	Submitted one day late	Submitted on time

Grading standard

- 30/30 Work so amazing the instructor would only see this once in a lifetime
- 25/30 Exceptional work, rare
- 20/30 Great work, student has full command of the topic.
- 15/30 Minor errors
- 10/30 Errors and perhaps a major error
- 5/30 Regular and consistent major errors. Lack of understanding
- 2/30 Largely empty