

COIS 3020H - Data Structures and Algorithms II

Testing Documentation: Assignment 3

*Alaadin Addas*

**Being Lazy - Winter 2022**

**Members:**

**Tawab Wahab(0643061), Abhinav Manocha (0658235), Sarah Roy (0650615), Audrey  
Uwa(0622151)**

## Testing Documentation - COIS 3020 Assignment #3

### Part A - Ternary Trees

Test 1	
Description	Insert items into Ternary Tree
Input	<pre>T.Insert("bag", 10); T.Insert("bat", 20); T.Insert("cab", 70); T.Insert("bagel", 30); T.Insert("beet", 40); T.Insert("abc", 60);</pre>
Expected Output	N/A
Actual Output	N/A

Test 2	
Description	Print items
Input	<pre>T.Print();</pre>
Expected Output	items
Actual Output	<pre>abc 60 bag 10 bagel 30 bat 20 beet 40 cab 70</pre>

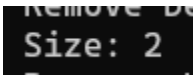
Test 3	
Description	Print Ternary Tree
Input	N/A
Expected Output	
Actual Output	<pre>a 0:: b 0:: c 60::  a 0:: g 10:: e 0:: l 30:: t 20:: e 0:: e 0:: t 40::  c 0:: a 0:: b 70::</pre>

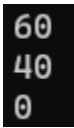
Test 3	

Test 4	
<b>Description</b>	Remove “beet”
<b>Input</b>	<pre>Console.WriteLine("Remove beet"); T.Remove("beet");</pre>
<b>Expected Output</b>	“remove beet”
<b>Actual Output</b>	<pre>Remove beet</pre>

Test 5	
<b>Description</b>	Remove “abc”
<b>Input</b>	<pre>Console.WriteLine("abc"); T.Remove("abc");</pre>
<b>Expected Output</b>	“Remove abc”
<b>Actual Output</b>	<pre>Remove abc</pre>

Test 6	
<b>Description</b>	Remove “abc” again after it was removed already
<b>Input</b>	<pre>Console.WriteLine("Remove abc after its already removed"); T.Remove("abc");</pre>
<b>Expected Output</b>	“Remove abc after its already removed”
<b>Actual Output</b>	<pre>Remove abc after its already removed</pre>

Test 7	
Description	Print size of number of items
Input	
Expected Output	
Actual Output	

Test 8	
Description	Print value of item
Input	Values of items
Expected Output	"60" "40" "0"
Actual Output	

## PART B

Part B did not work for us

Test 1	
Description	Create lazy binomial heap
Input	
Expected Output	
Actual Output	NO outcome

Test 2	
Description	Add items to binomial heap
Input	
Expected Output	
Actual Output	NO outcome

Test 3	
Description	Remove items from binomial heap
Input	
Expected Output	
Actual Output	NO outcome

Test 4	
Description	Show front of the heap
Input	
Expected Output	
Actual Output	NO outcome

Test 5	
<b>Description</b>	
<b>Input</b>	
<b>Expected Output</b>	
<b>Actual Output</b>	NO outcome

Test 6	
<b>Description</b>	
<b>Input</b>	
<b>Expected Output</b>	
<b>Actual Output</b>	NO outcome