Assignment 3

COIS 2020 - Data Structures and Algorithms

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| Tree with 100 nodes |
| --- |
| Input: 100 |
|  |

| Tree with 200 nodes |
| --- |
| Input: 200 |
|  |

| Tree with 300 nodes |
| --- |
| Input: 300 |
|  |

| Tree with 400 nodes |
| --- |
| Input: 400 |
|  |

| Tree with 500 nodes |
| --- |
| Input: 500 |
|  |

| Tree with 600 nodes |
| --- |
| Input: 600 |
|  |

| Tree with 700 nodes |
| --- |
| Input: 700 |
|  |

| Tree with 800 nodes |
| --- |
| Input: 800 |
|  |

| Tree with 900 nodes |
| --- |
| Input: 900 |
|  |

| Tree with 1000 nodes |
| --- |
| Input: 1000 |
|  |

| Is the tree an avl tree? |
| --- |
| Input: Ordered list |
|  |

| Is the tree an avl tree? |
| --- |
| Calculates and then prints the tree |
|  |

| Print the tree |
| --- |
| Input: a tree |
|  |

| Graph: |
| --- |
| Average Height (Ran 3 times) vs the Log2 Calculation |
|  |