|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input Size** | **File Type** | **Tree Type** | **Insertion Time (s)** | **Search Time (s)** |
| Short | Unsorted | BST | 0.000728 | 0.000603 |
| Short | Sorted | BST | 0.007341 | 0.007468 |
| Medium | Unsorted | BST | 0.056872 | 0.045894 |
| Medium | Sorted | BST | Crashed | Crashed |
| Long | Unsorted | BST | 4.493282 | 3.633494 |
| Long | Sorted | BST | Crashed | Crashed |
|  |  |  |  |  |
| Short | Unsorted | AVL | 0.000831 | 0.000479 |
| Short | Sorted | AVL | 0.000892 | 0.000468 |
| Medium | Unsorted | AVL | 0.065760 | 0.037684 |
| Medium | Sorted | AVL | 0.0066211 | 0.037258 |
| Long | Unsorted | AVL | 5.476403 | 2.686778 |
| Long | Sorted | AVL | 4.972116 | 2.782202 |

**Observation of Binary Search Tree and an AVL Tree**