**Test Plan**

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| --- | --- | --- |
| Operation to be Tested and Description of Action | Input Value | Expected Output |
| LeafCount()  invoke when empty  add 1 element and invoke  add 3 elements and invoke  add 3 elements and invoke  add 9 elements and invoke | Numbers in bold are leaves  -  **1**  3,**1,5**  1,3,**5**  5,134,90,1,200,**4,89**,300,**400** | Number of leaves  0  1  2  1  3 |
| Max()  invoke when empty  add 3 elements and invoke  add 1 element and invoke  add 4 elements and invoke | -  4,23,300  1  4 | Max node  null  300  1  30 |
| Min()  invoke when empty  add 3 elements and invoke  add 1 element and invoke  add 4 elements and invoke | -  4,23,300  1  4 | Min node  null  4  1  1 |
| SingleParentCount()  add 2 elements and invoke  add 1 element and invoke  add 2 elements and invoke  invoke when empty  add 5 elements and invoke  add 15 elements and invoke | 1,2  1  5,6  -  15,18,5,10,11  8,4,12,2,6,10,14,1,3,5,7,9,11,13,15 | Number of single parents  1  0  1  0  2  0 |

**Screen shot of passing test**

