Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Expected Output | Actual Output | Pass/Fail |
| (A(G(j)(1))(z(5))) | Makes tree,  Only passes Balance,  Height 2  Nodes 6  In Order:  (((j)G(1))A((5)z)) | Makes tree,  Only passes Balance,  Height 2  Nodes 6  In Order:  (((j)G(1))A((5)z)) | Pass |
| (A(G(j)(1))(z(5)(J))) | Makes tree,  Passes all tests,  Height 2  Nodes 7  In Order:  (((j)G(1))A((5)z(J))) | Makes tree,  Passes all tests,  Height 2  Nodes 7  In Order:  (((j)G(1))A((5)z(J))) | Pass |
| (A(G(j)(1))(z)) | Make tree  Passes balance and proper  Height 2  Nodes 5  In order:  (((j)G(1))A(z)) | Make tree  Passes balance and proper  Height 2  Nodes 5  In order:  (((j)G(1))A(z)) | Pass |
| (A(G(j(h)(u))(1))(z)) | Makes tree  Only passes Proper  Height 3  Nodes 7  In Order:  ((((h)j(u))G(1))A(z)) | Makes tree  Only passes Proper  Height 3  Nodes 7  In Order:  ((((h)j(u))G(1))A(z)) | Pass |
| (a)) | Parentheses Syntax error | Parentheses syntax error | Pass |
| ( ) | Space Syntax error | Pushes syntax error | Pass |
| (&) | Alphanumeric Syntax error | Alphanumeric Syntax error | Pass |
| a | Parentheses and character error | Parentheses and character error | Pass |
| (a)a | Parentheses and character error | Parentheses and character error | Pass |

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