**Balanced Tree Insertion:**

|  |  |
| --- | --- |
| Test 1 Inputs | Test 1 Expected Outputs |
| Succeed  Success  Succumb | Inserting “success”  Inserting “succeed”  Inserting “succumb” |

|  |  |
| --- | --- |
| Test 2 Inputs | Test 2 Expected Outputs |
| Cab  Cad  Car  Cat  Cop  Cot  Cow  Cut | Inserting “cat”  Inserting “cad”  Inserting “cab”  Inserting “car”  Inserting “cot”  Inserting “cop”  Inserting “cow”  Inserting “cut” |

|  |  |
| --- | --- |
| Test 3 Inputs | Test 3 Expected Outputs |
| Can  Car  Cat  Catch  Cork  Cot  Cut | Inserting “catch”  Inserting “car”  Inserting “can”  Inserting “cat”  Inserting “cot”  Inserting “cork”  Inserting “cut” |

**Tree Insertion:**

|  |  |
| --- | --- |
| Test 1 Inputs | Test 1 Expected Outputs |
| Success  Succeed  Succumb | Inserting “success”  Inserting “ed” LP of “succes”  Inserting “umb” RP of “succe” |

|  |  |
| --- | --- |
| Test 2 Inputs | Test 2 Expected Outputs |
| Cat  Cad  Cab  Car  Cot  Cop  Cow  Cut | Inserting “cat”  Inserting “d” LP of “cat”  Inserting “b” LP of “cad”  Inserting “r” RP of “cad”  Inserting “ot” RP of “ca”  Inserting “p” LP of “cot”  Inserting “w” RP of “cot  Inserting “ut” RP of “co” |

|  |  |
| --- | --- |
| Test 3 Inputs | Test 3 Expected Outputs |
| Catch  Car  Can  Cat  Cot  Cork  Cut | Inserting “catch”  Inserting “r” LP of “cat”  Inserting “n” LP of “car”  Inserting “\0” RP of “cat”  Inserting “ot” RP of “ca”  Inserting “rk” LP of “cot”  Inserting “ut” RP of “cao” |

**Spell Check:**

|  |  |
| --- | --- |
| Test 1 Inputs | Test 1 Expected Outputs |
| Success  Succeed  Succumb  Succb  Absolute | Correct  Correct  Correct  Incorrect  Incorrect |

|  |  |
| --- | --- |
| Test 2 Inputs | Test 2 Expected Outputs |
| Cat  Cad  Cab  Car  Cot  Cop  Cow  Cut  Cal  Cb  Cog  Lat | Correct  Correct  Correct  Correct  Correct  Correct  Correct  Correct  Incorrect  Incorrect  Incorrect  Incorrect |

|  |  |
| --- | --- |
| Test 3 Inputs | Test 3 Expected Outputs |
| Catch  Car  Can  Cat  Cot  Cork  Cut  Ca  Cy  Carr  Dom | Correct  Correct  Correct  Correct  Correct  Correct  Correct  Incorrect  Incorrect  Incorrect  Incorrect |

Diagram

Description automatically generated