**Scenario configuration**

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| --- | --- | --- |
| Name | Class | Scenario |
| setUpScenaryI () | AVLTest |  |
| setUpScenary2() | AVLTest |  |
| setUpScenary3() | AVLTest |  |
| setUpScenary4() | AVLTest |  |

Test Cases Design

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| Test Objective | Validate that the method add is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLTest | add | setUpScenaryI () | name: “Valen”  lastname: “Castro”  age: 9  Country: “Colombia”  City: “Valledupar”  address: Calle 24  toy: “Robot” | The element of type child is added to the AVL, Now eoot is equal to this element. |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method add is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLTest | add | setUpScenary2() | name: “Camila”  lastname: “Torres”  age: 9  Country: “Argentina”  City: “Buenos Aires”  address: Calle 24  toy: “Robot” | The new element of type Child is added to the AVL, so now, left of the root is pointed to this new element . |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method dequeue is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| QueueTest | dequeue | setUpScenary3() | name: “Luis”  lastname: “Torres”  age: 9  Country: “Perú”  City: “Lima”  address: Calle 24  toy: “Robot” | The element is added to the AVL, but, as is minor that the root this element will replace the root. |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method delete is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLTest | delete | setUpScenary2() | name: “Valen”  lastname: “Castro”  age: 9  Country: “Colombia”  City: “Valledupar”  address: Calle 24  toy: “Robot” | When we ask for the root the element will return null. |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method dequeue is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| QueueTest | dequeue | setUpScenary3() | name: “Camila”  lastname: “Torres”  age: 9  Country: “Argentina”  City: “Buenos Aires”  address: Calle 24  toy: “Robot” | When we ask for the left node of the root will return null |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method search is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLest | search | setUpScenary2() | name: “Valen”  lastname: “Castro”  age: 9  Country: “Colombia”  City: “Valledupar”  address: Calle 24  toy: “Robot” | The method will return the element of the root. |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method search is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLest | search | setUpScenary1() | name: “Valen”  lastname: “Castro”  age: 9  Country: “Colombia”  City: “Valledupar”  address: Calle 24  toy: “Robot” | The method will return null, the AVL isEmpty. |

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| --- | --- | --- | --- | --- |
| Test Objective | Validate that the method search is correctly working | | | |
| Class | Method | Scenario | Input Values | Result |
| AVLest | search | setUpScenary3() | name: “Camila”  lastname: “Torres”  age: 9  Country: “Argentina”  City: “Buenos Aires”  address: Calle 24  toy: “Robot” | The method will return the element that which is asked for. |