**EQUALS**

**P1:** C1 || C2 && C3  
C1: this == other  
C2: other instanceof NTree  
C3: equalTrees(this, ((NTree<T>) other))

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | C1 | C2 | C3 | **P1:** C1 || C2 && C3 | Satisfies |
| 1 | T | T | T | T | C1||d(C1) C2||d(C2) C3||d(C3) |
| 2 | T | T | F | T | C1||d(C1) C2||d(C2) |
| 3 | T | F | T | T | C1||d(C1) C3||d(C3) |
| 4 | T | F | F | T | C1||d(C1) |
| 5 | F | T | T | T | C2||d(C2) C3||d(C3) |
| 6 | F | T | F | F | ­­­­ ¬C1||d(C1) ¬C3||d(C3) |
| 7 | F | F | T | F | ­­­­ ¬C1||d(C1) ¬C2||d(C2) |
| 8 | F | F | F | F | ­­­­ ¬C1||d(C1) ¬C2||d(C2) ¬C3||d(C3) |

Testes impossíveis: 2,3,4,7

**EQUALTREES**

**P1**: C1  
C1: one == other

|  |  |  |  |
| --- | --- | --- | --- |
| # | C1 | **P1:** C1 | Satisfies |
| 9 | T | T | C1|| d(C1) |
| 10 | F | F | ¬C1|| d(C1) |

Testes impossíveis: 9,10

**P2**: C2 && C3  
C2: one != null  
C3: other != null

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | C2 | C3 | **P2**: C2 && C3 | Satisfies |
| 11 | T | T | T | C2||d(C2) C3||d(C3) |
| 12 | T | F | F | ¬C3||d(C3) |
| 13 | F | T | F | ¬C2||d(C2) |
| 14 | F | F | F | ¬C2||d(C2) ¬C3||d(C3) |

Testes impossíveis: 12,13

**P3**: C4 && C5  
C4: it1.hasNext()  
C5: it2.hasNext()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | C4 | C5 | **P3**: C4 && C5 | Satisfies |
| 15 | T | T | T | C4||d(C4) C5||d(C5) |
| 16 | T | F | F | ¬C5||d(C5) |
| 17 | F | T | F | ¬C4||d(C4) |
| 18 | F | F | F | ¬C4||d(C4) ¬C5||d(C5) |

**P4**: C6  
C6: !it1.next().equals(it2.next())

|  |  |  |  |
| --- | --- | --- | --- |
| # | C6 | **P4:** C6 | Satisfies |
| 19 | T | T | C6|| d(C6) |
| 20 | F | F | ¬C6|| d(C6) |

**P5**: C7 && C8  
C7: !it1.hasNext()  
C8: !it2.hasNext()

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | C7 | C8 | **P5**: C7 && C8 | Satisfies |
| 21 | T | T | T | C7||d(C7) C8||d(C8) |
| 22 | T | F | F | ¬C8||d(C8) |
| 23 | F | T | F | ¬C7||d(C7) |
| 24 | F | F | F | ¬C7||d(C7) ¬C8||d(C8) |