Test Cases

# Test Data

Test Requires 25 randomly generated Aircraft to be used for the various methods. All Aircraft are used in testing the sort method

# Test Case 1.0

|  |  |
| --- | --- |
| Test case No: | 1.0 |
| Test case name: | Test Add method |
| Written by: | Chris Rollings |
| Executed by: | Chris Rollings |

|  |  |  |
| --- | --- | --- |
| **Action** | **Required** | **Actual** |
| Add new Aircraft | True | True |
| Add existing Aircraft | False | False |
| Add null | Throws NullPointerException | Throws NullPointerException |

# Test Case 2.0

|  |  |
| --- | --- |
| Test case No: | 2.0 |
| Test case name: | Test Get method |
| Written by: | Chris Rollings |
| Executed by: | Chris Rollings |

|  |  |  |
| --- | --- | --- |
| **Action** | **Required** | **Actual** |
| Get existing Aircraft | Correct aircraft | Correct Aircraft |
| Get non existing Aircraft | Null | Null |
| Get null | Throws NullPointerException | Throws NullPointerException |

# Test Case 3.0

|  |  |
| --- | --- |
| Test case No: | 3.0 |
| Test case name: | Test Remove method |
| Written by: | Chris Rollings |
| Executed by: | Chris Rollings |

|  |  |  |
| --- | --- | --- |
| **Action** | **Required** | **Actual** |
| Remove Existing Aircraft | True | True |
| Remove non Existing Aircraft | False | False |
| Remove null | Throws NullPointerException | Throws NullPointerException |

# Test Case 4.0

|  |  |
| --- | --- |
| Test case No: | 1.0 |
| Test case name: | Test Sort method |
| Written by: | Chris Rollings |
| Executed by: | Chris Rollings |

|  |  |  |
| --- | --- | --- |
| **Action** | **Required** | **Actual** |
| Sort list into alphabetical order | List is sorted | List is Sorted |

# Test run Output

\*\*\* Begin testing on Fri Nov 16 13:15:36 GMT 2018

Created: 25 Aircrafts

\*\* Begin testing aircraftlist methods

\*\* Testing add method

Operation: Add aircraft without existing - Excpected: true - Actual: true

Operation: Add aircraft with existing - Excpected: false - Actual: false

Operation: Add null, throws exception Passed - Exception: class java.lang.NullPointerException

\*\* Testing get method

Operation: Get aircraft with existing - Excpected: true - Actual: true

Operation: Get aircraft without existing - Excpected: true - Actual: true

Operation: Get aircraft, throws exception Passed - Exception: class java.lang.NullPointerException

\*\* Testing remove method

Operation: Remove aircraft, with existing - Excpected: true - Actual: true

Operation: Remove aircraft, without existing - Excpected: false - Actual: false

Operation: Remove aircraft, throws exception Passed - Exception: class java.lang.NullPointerException

\*\* Finish testing aircraftlist methods

\*\* Begin testing sort method\*\* Filling list

\*\* operations list is empty = true

\*\* populating operations list with 25 Aircraft

\*\* operations list size = 25

\*\* List before sort: Excpected result - Unsorted

B-100PFB : Bombardier\_Learjet\_40 : unknow : 233/

H-101FYN : Dornier\_Do\_27 : unknow : 238/

R-102DHF : Boeing\_747-8 : unknow : 112/

U-103VCX : Fokker\_50 : unknow : 110/

X-104KAH : Beechcraft\_1300 : unknow : 219/

V-105VFO : Gulfstream\_G550 : unknow : 203/

B-106PQO : BAe\_146 : unknow : 26/

N-107TEB : Airbus\_A380-800 : unknow : 164/

U-108BKK : Bombardier\_Learjet\_40 : unknow : 210/

Y-109DTE : Embraer\_190 : unknow : 130/

P-110GWW : Fairchild\_Dornier\_228 : unknow : 107/

K-111RBV : Embraer\_190 : unknow : 6/

B-112VTY : Airbus\_A380-800 : unknow : 248/

P-113WMT : Canadair\_CL600-2C10 : unknow : 18/

C-114HXA : Fairchild\_Dornier\_228 : unknow : 129/

C-115WKS : Beechcraft\_1300 : unknow : 15/

E-116OMZ : Boeing\_737-800 : unknow : 69/

P-117UMR : Antonov\_An-140 : unknow : 142/

P-118BZK : BAe\_146 : unknow : 123/

Q-119EBC : Boeing\_747-8 : unknow : 64/

U-120AEF : Embraer\_175 : unknow : 165/

K-121KUT : Antonov\_An-140 : unknow : 4/

V-122TLP : Canadair\_CL600-2C10 : unknow : 2/

Q-123XBD : Boeing\_737-800 : unknow : 89/

N-124OTW : Gulfstream\_G550 : unknow : 243/

\*\* List after sort: Excpected result - sorted by alphabetical order on flight reg

B-100PFB : Bombardier\_Learjet\_40 : unknow : 233/

B-106PQO : BAe\_146 : unknow : 26/

B-112VTY : Airbus\_A380-800 : unknow : 248/

C-114HXA : Fairchild\_Dornier\_228 : unknow : 129/

C-115WKS : Beechcraft\_1300 : unknow : 15/

E-116OMZ : Boeing\_737-800 : unknow : 69/

H-101FYN : Dornier\_Do\_27 : unknow : 238/

K-111RBV : Embraer\_190 : unknow : 6/

K-121KUT : Antonov\_An-140 : unknow : 4/

N-107TEB : Airbus\_A380-800 : unknow : 164/

N-124OTW : Gulfstream\_G550 : unknow : 243/

P-110GWW : Fairchild\_Dornier\_228 : unknow : 107/

P-113WMT : Canadair\_CL600-2C10 : unknow : 18/

P-117UMR : Antonov\_An-140 : unknow : 142/

P-118BZK : BAe\_146 : unknow : 123/

Q-119EBC : Boeing\_747-8 : unknow : 64/

Q-123XBD : Boeing\_737-800 : unknow : 89/

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U-108BKK : Bombardier\_Learjet\_40 : unknow : 210/

U-120AEF : Embraer\_175 : unknow : 165/

V-105VFO : Gulfstream\_G550 : unknow : 203/

V-122TLP : Canadair\_CL600-2C10 : unknow : 2/

X-104KAH : Beechcraft\_1300 : unknow : 219/

Y-109DTE : Embraer\_190 : unknow : 130/

\*\*\* Finish testing sort method

\*\*\* Finish testing on Fri Nov 16 13:15:36 GMT 2018