Testing my array-based IndexList:

java.lang.IndexOutOfBoundsException: add: invalid index = 1

-- adding value 435 at position 0

\*\*\* The 1 elements in the list are:

--Element in position 0 is: 435

-- adding value 200 at position 1

\*\*\* The 2 elements in the list are:

--Element in position 0 is: 435

--Element in position 1 is: 200

\*\*\* The 10 elements in the list are:

--Element in position 0 is: 435

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 200

--Element in position 4 is: 20

--Element in position 5 is: 25

--Element in position 6 is: 30

--Element in position 7 is: 35

--Element in position 8 is: 40

--Element in position 9 is: 45

-- adding value 100 at position 90

java.lang.IndexOutOfBoundsException: add: invalid index = 90

-- adding value -1 at position 90

java.lang.IndexOutOfBoundsException: add: invalid index = 90

-- deleting element at position 100

java.lang.IndexOutOfBoundsException: remove: invalid index = 100

-- deleting element at position -1

java.lang.IndexOutOfBoundsException: remove: invalid index = -1

-- replacing value at position 100 by 0

java.lang.IndexOutOfBoundsException: set: invalid index = 100

-- replacing value at position -1 by 0

java.lang.IndexOutOfBoundsException: set: invalid index = -1

-- deleting element at position 4

-- value of deleted element was null

\*\*\* The 9 elements in the list are:

--Element in position 0 is: 435

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 200

--Element in position 4 is: 20

--Element in position 5 is: 25

--Element in position 6 is: 30

--Element in position 7 is: 35

--Element in position 8 is: 40

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 8 elements in the list are:

--Element in position 0 is: 435

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 200

--Element in position 4 is: 20

--Element in position 5 is: 25

--Element in position 6 is: 30

--Element in position 7 is: 35

-- deleting element at position 30

java.lang.IndexOutOfBoundsException: remove: invalid index = 30

-- replacing value at position 3 by 400

-- value of replaced element was 200

\*\*\* The 8 elements in the list are:

--Element in position 0 is: 435

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 400

--Element in position 4 is: 20

--Element in position 5 is: 25

--Element in position 6 is: 30

--Element in position 7 is: 35

-- replacing value at position 0 by 30

-- value of replaced element was 435

\*\*\* The 8 elements in the list are:

--Element in position 0 is: 30

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 400

--Element in position 4 is: 20

--Element in position 5 is: 25

--Element in position 6 is: 30

--Element in position 7 is: 35

-- adding value 700 at position 3

\*\*\* The 9 elements in the list are:

--Element in position 0 is: 30

--Element in position 1 is: 200

--Element in position 2 is: 435

--Element in position 3 is: 700

--Element in position 4 is: 400

--Element in position 5 is: 20

--Element in position 6 is: 25

--Element in position 7 is: 30

--Element in position 8 is: 35

-- adding value 700 at position 0

\*\*\* The 10 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 30

--Element in position 2 is: 200

--Element in position 3 is: 435

--Element in position 4 is: 700

--Element in position 5 is: 400

--Element in position 6 is: 20

--Element in position 7 is: 25

--Element in position 8 is: 30

--Element in position 9 is: 35

-- adding value 800 at position 1

\*\*\* The 11 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 30

--Element in position 3 is: 200

--Element in position 4 is: 435

--Element in position 5 is: 700

--Element in position 6 is: 400

--Element in position 7 is: 20

--Element in position 8 is: 25

--Element in position 9 is: 30

--Element in position 10 is: 35

-- adding value 900 at position 2

\*\*\* The 12 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 900

--Element in position 3 is: 30

--Element in position 4 is: 200

--Element in position 5 is: 435

--Element in position 6 is: 700

--Element in position 7 is: 400

--Element in position 8 is: 20

--Element in position 9 is: 25

--Element in position 10 is: 30

--Element in position 11 is: 35

-- adding value 1000 at position 2

\*\*\* The 13 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 1000

--Element in position 3 is: 900

--Element in position 4 is: 30

--Element in position 5 is: 200

--Element in position 6 is: 435

--Element in position 7 is: 700

--Element in position 8 is: 400

--Element in position 9 is: 20

--Element in position 10 is: 25

--Element in position 11 is: 30

--Element in position 12 is: 35

-- adding value 1001 at position 1

\*\*\* The 14 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1000

--Element in position 4 is: 900

--Element in position 5 is: 30

--Element in position 6 is: 200

--Element in position 7 is: 435

--Element in position 8 is: 700

--Element in position 9 is: 400

--Element in position 10 is: 20

--Element in position 11 is: 25

--Element in position 12 is: 30

--Element in position 13 is: 35

-- adding value 1002 at position 3

\*\*\* The 15 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 30

--Element in position 7 is: 200

--Element in position 8 is: 435

--Element in position 9 is: 700

--Element in position 10 is: 400

--Element in position 11 is: 20

--Element in position 12 is: 25

--Element in position 13 is: 30

--Element in position 14 is: 35

-- adding value 700 at position 3

\*\*\* The 16 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 700

--Element in position 4 is: 1002

--Element in position 5 is: 1000

--Element in position 6 is: 900

--Element in position 7 is: 30

--Element in position 8 is: 200

--Element in position 9 is: 435

--Element in position 10 is: 700

--Element in position 11 is: 400

--Element in position 12 is: 20

--Element in position 13 is: 25

--Element in position 14 is: 30

--Element in position 15 is: 35

-- adding value 800 at position 1

\*\*\* The 17 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 1001

--Element in position 3 is: 800

--Element in position 4 is: 700

--Element in position 5 is: 1002

--Element in position 6 is: 1000

--Element in position 7 is: 900

--Element in position 8 is: 30

--Element in position 9 is: 200

--Element in position 10 is: 435

--Element in position 11 is: 700

--Element in position 12 is: 400

--Element in position 13 is: 20

--Element in position 14 is: 25

--Element in position 15 is: 30

--Element in position 16 is: 35

-- adding value 900 at position 2

\*\*\* The 18 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 900

--Element in position 3 is: 1001

--Element in position 4 is: 800

--Element in position 5 is: 700

--Element in position 6 is: 1002

--Element in position 7 is: 1000

--Element in position 8 is: 900

--Element in position 9 is: 30

--Element in position 10 is: 200

--Element in position 11 is: 435

--Element in position 12 is: 700

--Element in position 13 is: 400

--Element in position 14 is: 20

--Element in position 15 is: 25

--Element in position 16 is: 30

--Element in position 17 is: 35

-- adding value 1000 at position 2

\*\*\* The 19 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 800

--Element in position 2 is: 1000

--Element in position 3 is: 900

--Element in position 4 is: 1001

--Element in position 5 is: 800

--Element in position 6 is: 700

--Element in position 7 is: 1002

--Element in position 8 is: 1000

--Element in position 9 is: 900

--Element in position 10 is: 30

--Element in position 11 is: 200

--Element in position 12 is: 435

--Element in position 13 is: 700

--Element in position 14 is: 400

--Element in position 15 is: 20

--Element in position 16 is: 25

--Element in position 17 is: 30

--Element in position 18 is: 35

-- adding value 1001 at position 1

\*\*\* The 20 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1000

--Element in position 4 is: 900

--Element in position 5 is: 1001

--Element in position 6 is: 800

--Element in position 7 is: 700

--Element in position 8 is: 1002

--Element in position 9 is: 1000

--Element in position 10 is: 900

--Element in position 11 is: 30

--Element in position 12 is: 200

--Element in position 13 is: 435

--Element in position 14 is: 700

--Element in position 15 is: 400

--Element in position 16 is: 20

--Element in position 17 is: 25

--Element in position 18 is: 30

--Element in position 19 is: 35

-- adding value 1002 at position 3

\*\*\* The 21 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700

--Element in position 16 is: 400

--Element in position 17 is: 20

--Element in position 18 is: 25

--Element in position 19 is: 30

--Element in position 20 is: 35

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 20 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700

--Element in position 16 is: 400

--Element in position 17 is: 20

--Element in position 18 is: 25

--Element in position 19 is: 30

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 19 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700

--Element in position 16 is: 400

--Element in position 17 is: 20

--Element in position 18 is: 25

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 18 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700

--Element in position 16 is: 400

--Element in position 17 is: 20

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 17 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700

--Element in position 16 is: 400

-- deleting element at position 2

-- value of deleted element was null

\*\*\* The 16 elements in the list are:

--Element in position 0 is: 700

--Element in position 1 is: 1001

--Element in position 2 is: 800

--Element in position 3 is: 1002

--Element in position 4 is: 1000

--Element in position 5 is: 900

--Element in position 6 is: 1001

--Element in position 7 is: 800

--Element in position 8 is: 700

--Element in position 9 is: 1002

--Element in position 10 is: 1000

--Element in position 11 is: 900

--Element in position 12 is: 30

--Element in position 13 is: 200

--Element in position 14 is: 435

--Element in position 15 is: 700