

```
ant -f C:\Users\Jed\OneDrive\Desktop\CSCI290Projects\Part03
-Dnb.internal.action.name=run run
init:
Deleting: C:\Users\Jed\OneDrive\Desktop\CSCI290Projects\Part03\build\built-jar.properties
deps-jar:
Updating property file:
C:\Users\Jed\OneDrive\Desktop\CSCI290Projects\Part03\build\built-jar.properties
compile:
run:
```

```
testing routine for RaggedArrayList
insertion order: qwertyuiopasdfghjklzxcvbnmaeiou
The number of comparison to build the RaggedArrayList = 273
TEST: after adds - data structure dump
```

```
[0] -> [a][a][b][c][ ][ ][ ]
[1] -> [d][e][e][f][ ][ ][ ]
[2] -> [g][h][i][i][j][ ][ ][ ]
[3] -> [k][l][m][n][ ][ ][ ][ ]
[4] -> [o][o][p][q][ ][ ][ ][ ]
[5] -> [r][s][t][u][u][v][ ][ ]
[6] -> [w][x][y][z][ ][ ][ ][ ]
[7] -> null
```

STATS:

```
list size N = 31
square root of N = 5.568
level 1 array 7 of 8 used.
level 2 array sizes: min = 4 used, avg = 4.4 used, max = 6 used
Successful search: min cmps = 4, avg cmps = 8.6, max cmps 13
TEST: contains("c") ->true
TEST: contains("7") ->false
TEST: toArray
```

```
[a][a][b][c][d][e][e][f][g][h][i][i][j][k][l][m][n][o][o][p][q][r][s][t][u][u][v][w][x][y][z]
```

TEST: iterator

```
[a][a][b][c][d][e][e][f][g][h][i][i][j][k][l][m][n][o][o][p][q][r][s][t][u][u][v][w][x][y][z]
```

TEST: sublist(e,o)

```
[0] -> [e][e][ ][ ]
[1] -> [f][g][ ][ ]
[2] -> [h][i][ ][ ]
[3] -> [i][j][k][l][m][n][ ][ ]
[4] -> null
```

```
[5] -> null
```

```
[6] -> null
```

[7] -> null