GIT Department of Computer Engineering

CSE 222/505 - Spring 2020

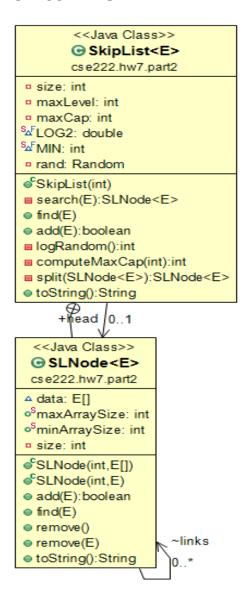
Homework #7 Part 2 Report

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NOTE: Remove part is missing

CLASS DIAGRAM



TEST CASES

| TEST ID | Scenario | Test Data | Expected | Actual Results | Pass/ |
|---------|-----------------------|-----------|--------------|----------------|-------|
| | | | Results | | Fail |
| TEST01 | Add 50 random element | | Successfully | As Expected | Pass |
| | (0-100) | | Added | | |
| TEST02 | Add randomly | 82 | Successfully | As Expected | Pass |
| | | | Added | | |

| TEST03 | Add randomly | 41 | Successfully | As Expected | Pass |
|--------|--------------|----|--------------|-------------|------|
| | | | Added | | |
| TEST04 | Add randomly | 70 | Successfully | As Expected | Pass |
| | | | Added | | |
| TEST05 | Add randomly | 25 | Successfully | As Expected | Pass |
| | | | Added | | |
| TEST06 | Add randomly | 8 | Successfully | As Expected | Pass |
| | | | Added | | |

RUNNING AND RESULTS

```
Please enter maximum size(order) of array: 4
After add 50 random (0-100) element
Head: 5 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 8, 14] |3|
        --> [15, null, null] |2|
        --> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 35, 36] |1|
        --> [43, 45, null] |1|
        --> [46, 51, null] |5|
        --> [52, 55, null] |2|
        --> [58, 60, null] |2|
        --> [61, 63, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 79, null] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 85, null] |2|
        --> [86, 91, null] |1|
        --> [93, 96, null] |1|
        --> [97, 98, null] |2|
```

```
Before add 82
Head: 5 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
        --> [22, 23, null] |1|
        --> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, 37, 40] |1|
        --> [43, 44, 45] |1|
        --> [46, 47, 48] |5||
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
        --> [93, 96, null] |1|
        --> [97, 98, null] |2|
```

```
After add 82
```

```
Head: 5 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
         --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
--> [17, 19, null] |1|
        --> [22, 23, null] |1|
        --> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, 37, 40] |1|
--> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
        --> [93, 96, null] |1|
        --> [97, 98, null] |2|
```

```
Before add 41
Head: 5 --> [0, null, null] |1|
         --> [1, 2, 4] |1|
         --> [5, 6, null] |3|
         --> [8, 10, null] |1|
         --> [11, 13, 14] |2|
         --> [15, null, null] |2|
         --> [17, 19, null] |1|
         --> [22, 23, null] |1|
         --> [24, 27, 28] |2|
         --> [30, null, null] |1|
         --> [31, 32, 34] |1|
         --> [35, null, null] |1|
         --> [36, 37, 40] |1|
         --> [43, 44, 45] |1|
         --> [46, 47, 48] |5|
--> [49, 51, null] |3|
         --> [52, 55, 57] |2|
         --> [58, 59, 60] |2|
         --> [61, null, null] |1|
         --> [63, 66, 67] |1|
         --> [68, null, null] |1|
         --> [70, 73, null] |2|
--> [74, 77, 79] |1|
         --> [80, 81, null] |4|
         --> [82, null, null] |2|
         --> [83, 84, 85] |2|
         --> [86, 87, null] |1|
         --> [88, 89, null] |2|
         --> [90, 91, null] |3|
         --> [93, 96, null] |1|
         --> [97, 98, null] |2|
```

```
After add 41
Head: 6 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
        --> [22, 23, null] |1|
--> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, null, null] |1|
        --> [37, 40, 41] |1|
        --> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
```

--> [74, 77, 79] |1|
--> [80, 81, null] |4|
--> [82, null, null] |2|
--> [83, 84, 85] |2|
--> [86, 87, null] |1|
--> [88, 89, null] |2|
--> [90, 91, null] |3|
--> [93, 96, null] |1|
--> [97, 98, null] |2|

```
Before add 70
Head: 6 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
        --> [22, 23, null] |1|
        --> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, null, null] |1|
        --> [37, 40, 41] |1|
        --> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
        --> [93, 96, null] |1|
        --> [97, 98, null] |2|
```

```
After add 70
Head: 6 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
        --> [22, 23, null] |1|
        --> [24, 27, 28] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, null, null] |1|
        --> [37, 40, 41] |1
        --> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
--> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
```

--> [93, 96, null] |1| --> [97, 98, null] |2|

```
Before add 25
Head: 6 --> [0, null, null] |1|
         --> [1, 2, 4] |1|
         --> [5, 6, null] |3|
         --> [8, 10, null] |1|
         --> [11, 13, 14] |2|
         --> [15, null, null] |2|
         --> [17, 19, null] |1|
--> [22, 23, null] |1|
         --> [24, 27, 28] |2|
         --> [30, null, null] |1|
         --> [31, 32, 34] |1|
         --> [35, null, null] |1|
         --> [36, null, null] |1|
         --> [37, 40, 41] |1|
--> [43, 44, 45] |1|
         --> [46, 47, 48] |5|
         --> [49, 51, null] |3|
         --> [52, 55, 57] |2|
         --> [58, 59, 60] |2|
         --> [61, null, null] |1|
         --> [63, 66, 67] |1|
--> [68, null, null] |1|
         --> [70, 73, null] |2|
         --> [74, 77, 79] |1|
         --> [80, 81, null] |4|
         --> [82, null, null] |2|
         --> [83, 84, 85] |2|
         --> [86, 87, null] |1|
         --> [88, 89, null] |2|
         --> [90, 91, null] |3|
         --> [93, 96, null] |1|
         --> [97, 98, null] |2|
```

```
After add 25
Head: 6 --> [0, null, null] |1|
         --> [1, 2, 4] |1|
         --> [5, 6, null] |3|
--> [8, 10, null] |1|
         --> [11, 13, 14] |2|
         --> [15, null, null] |2|
         --> [17, 19, null] |1|
         --> [22, 23, null] |1|
         --> [24, 25, null] |2|
         --> [27, 28, null] |2|
         --> [30, null, null] |1|
         --> [31, 32, 34] |1|
         --> [35, null, null] |1|
         --> [36, null, null] |1|
         --> [37, 40, 41] |1|
         --> [43, 44, 45] |1|
         --> [46, 47, 48] |5|
         --> [49, 51, null] |3|
--> [52, 55, 57] |2|
         --> [58, 59, 60] |2|
         --> [61, null, null] |1|
         --> [63, 66, 67] |1|
         --> [68, null, null] |1|
         --> [70, 73, null] |2|
         --> [74, 77, 79] |1|
--> [80, 81, null] |4|
         --> [82, null, null] |2|
         --> [83, 84, 85] |2|
         --> [86, 87, null] |1|
         --> [88, 89, null] |2|
         --> [90, 91, null] |3|
         --> [93, 96, null] |1|
--> [97, 98, null] |2|
```

```
Before add 8
Head: 6 --> [0, null, null] |1|
        --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
        --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
        --> [22, 23, null] |1|
        --> [24, 25, null] |2|
        --> [27, 28, null] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, null, null] |1|
        --> [37, 40, 41] |1|
        --> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
        --> [93, 96, null] |1|
        --> [97, 98, null] |2|
```

```
After add 8
Head: 6 --> [0, null, null] |1|
         --> [1, 2, 4] |1|
        --> [5, 6, null] |3|
         --> [8, 10, null] |1|
        --> [11, 13, 14] |2|
        --> [15, null, null] |2|
        --> [17, 19, null] |1|
--> [22, 23, null] |1|
--> [24, 25, null] |2|
        --> [27, 28, null] |2|
        --> [30, null, null] |1|
        --> [31, 32, 34] |1|
        --> [35, null, null] |1|
        --> [36, null, null] |1|
        --> [37, 40, 41] |1|
--> [43, 44, 45] |1|
        --> [46, 47, 48] |5|
        --> [49, 51, null] |3|
        --> [52, 55, 57] |2|
        --> [58, 59, 60] |2|
        --> [61, null, null] |1|
        --> [63, 66, 67] |1|
        --> [68, null, null] |1|
        --> [70, 73, null] |2|
        --> [74, 77, 79] |1|
        --> [80, 81, null] |4|
        --> [82, null, null] |2|
        --> [83, 84, 85] |2|
        --> [86, 87, null] |1|
        --> [88, 89, null] |2|
        --> [90, 91, null] |3|
        --> [93, 96, null] |1|
```

--> [97, 98, null] |2|