| index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 107 | | | | | | | | | | | | |
| | 79 | 107 | | | | | | | | | | | |
| | 79 | 107 | 122 | | | | | | | | | | |
| | 59 | 79 | 122 | 107 | | | | | | | | | |
| | 11 | 59 | 122 | 107 | 79 | | | | | | | | |
| | 11 | 59 | 62 | 107 | 79 | 122 | | | | | | | |
| | 11 | 59 | 23 | 107 | 79 | 122 | 62 | | | | | | |
| | 11 | 47 | 23 | 59 | 79 | 122 | 62 | 107 | | | | | |
| | 11 | 22 | 23 | 47 | 79 | 122 | 62 | 107 | 59 | | | | |
| | 11 | 19 | 23 | 47 | 22 | 122 | 62 | 107 | 59 | 79 | | | |
| | 11 | 19 | 23 | 47 | 22 | 122 | 62 | 107 | 59 | 79 | 24 | | |
| | 9 | 19 | 11 | 47 | 22 | 23 | 62 | 107 | 59 | 79 | 24 | 122 | |
| | 6 | 19 | 9 | 47 | 22 | 11 | 62 | 107 | 59 | 79 | 24 | 122 | 23 |

| index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 54 | 28 | 39 | 8 | 17 | 20 | 21 | 5 | 2 | 15 | 1 | Initial MaxHeap |
| 1 | 1 | 28 | 39 | 8 | 17 | 20 | 21 | 5 | 2 | 15 | 54 | swap: 54-1 |
| 2 | 1 | 28 | 39 | 8 | 17 | 20 | 21 | 5 | 2 | 15 | | remove last element (54) |
| 3 | 39 | 28 | 21 | 8 | 17 | 20 | 15 | 5 | 2 | | | down heap (39-28) |
| 4 | 28 | 17 | 21 | 8 | 39 | 20 | 15 | 5 | 2 | | | down heap (28-21) |
| 5 | 21 | 17 | 15 | 8 | 39 | 20 | 28 | 5 | | | | down heap (21-17) |
| 6 | 17 | 8 | 15 | 21 | 39 | 20 | 23 | 5 | | | | down heap (17-8) |
| 7 | 15 | 8 | 2 | 21 | 39 | 20 | 23 | (5) | | | | down heap (15, 8) |
| 8 | 8 | 5 | 2 | 21 | 39 | 20 | 23 | | | | | down heap (8-5) |
| 9 | 5 | 21 | 2 | 8 | 39 | 20 | 23 | | | | | |

MaxHeap (after removing the maximum el 54,

{5, 21, 2, 8, 39, 20}