Joseph Ghormley

Dr. Robert Alexander

Cmsc 204

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Heap Sort

First array is builded heap

0 1 2 3 4 5 6 7 8 9

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| 92 | 76 | 81 | 54 | 63 | 9 | 48 | 22 | 5 | 28 |
| 28 | 76 | 81 | 54 | 63 | 9 | 48 | 22 | 5 | 92 |
| 81 | 76 | 48 | 54 | 63 | 9 | 28 | 22 | 5 | 92 |
| 5 | 76 | 48 | 54 | 63 | 9 | 28 | 22 | 81 | 92 |
| 76 | 63 | 48 | 54 | 5 | 9 | 28 | 22 | 81 | 92 |
| 22 | 63 | 48 | 54 | 5 | 9 | 28 | 76 | 81 | 92 |
| 63 | 54 | 48 | 22 | 5 | 9 | 28 | 76 | 81 | 92 |
| 28 | 54 | 48 | 22 | 5 | 9 | 63 | 76 | 81 | 92 |
| 54 | 28 | 48 | 22 | 5 | 9 | 63 | 76 | 81 | 92 |
| 9 | 28 | 48 | 22 | 5 | 54 | 63 | 76 | 81 | 92 |
| 48 | 28 | 9 | 22 | 5 | 54 | 63 | 76 | 81 | 92 |
| 5 | 28 | 9 | 22 | 48 | 54 | 63 | 76 | 81 | 92 |
| 28 | 5 | 9 | 22 | 48 | 54 | 63 | 76 | 81 | 92 |
| 22 | 5 | 9 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
| 22 | 5 | 9 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
| 9 | 5 | 22 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
| 9 | 5 | 22 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
| 5 | 9 | 22 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
| 5 | 9 | 22 | 28 | 48 | 54 | 63 | 76 | 81 | 92 |
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Building a heap



