CSCI 104 - Devin C. Martin Part 4 - Heaps Buildheap Process on [10, 12, 3, 11, 6, 8, 9] Initial Array as a Binery Tree Array: Llo, 12, 3, 11, 6, 8, 9] Binary Tree After Heapily (2) No Charge (subtree rooted at 3 is already a min-hear)
After Heapfy (i) Array Now: [10,6,3,11,12,8,9] Binary Trees 1280 After Heaply (0) Array Now: [3, 6, 9, 11, 12, 8, 10] Binary Tree:

6) Operations on [2,4,6,8,10,12,14,16] Initial Configuration Array [2,4,6,8,6,12,14,16] Binory Tree: 8 10 12 14 Laser+3 Array Now! [2,3,6,8,4,12,4,16,10] Binary Tree: 4 12 14 Pop(Top element) Array Now: [3,4,6,8,10,12,14,16] Binary Tree: 8 101214 16

Poplitop Element) Array New: E4, 8, 6, 14, 10, 12, 16] Binary Tree: 14 10 12 16 Insert S Array New: Ey, 5, 6, 8, 10, 12, 16, 14] Binary Tree: 8 1012 16