Draw the array along with the tree diagram tracing the steps to sort the following list of numbers using heapsort.

original array	33	20	4	0	36	5
reheap 0	36	33	5	0	20	4
swap 0	4	33	5	0	20	36

Tree: 36 / 33, 5 / 0, 20, 4, 5

reheap 1	33	20	5	0	4	36
swap 1	4	20	5	0	33	36

Tree: 33 / 20, 5 / 0, 4, 5

reheap 2	20	4	5	0	33	36
swap 2	0	4	5	20	33	36

Tree: 20 / 4, 5 / 0, 5

reheap 3	5	4	0	20	33	36
swap 3	0	4	5	20	33	36

Tree: 5 / 4, 0

reheap 4	4	0	5	20	33	36
swap 4	0	4	5	20	33	36

Tree: 4 / 0

											0			
reheap 5											0			
no swap required	0	4	5	20	33	36								