

Heap Sort Lab

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Original Document: <https://docs.google.com/spreadsheets/d/1BaLaYrkmFsRWhalskn-LMMyjL0Gvluqv54JgFdXR6HI/edit?usp=sharing>

[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	Indices
5	22	9	76	63	81	48	92	54	28	Provided level-order binary tree traversal
5	22	9	92	63	81	48	76	54	28	Start building heap, swap 76 & 92
5	92	9	22	63	81	48	76	54	28	Swap 22 & 92
5	92	9	76	63	81	48	22	54	28	Swap 22 & 76
5	92	81	76	63	9	48	22	54	28	Swap 9 & 81
92	5	81	76	63	9	48	22	54	28	Swap 5 & 92
92	76	81	5	63	9	48	22	54	28	Swap 5 & 76
92	76	81	54	63	9	48	22	5	28	Swap 5 & 54, finish building the heap
28	76	81	54	65	9	48	22	5	92	Start sorting heap, swap root 92 & 28
81	76	28	54	65	9	48	22	5	92	Reheap, swap 28 & 81
81	76	48	54	65	9	28	22	5	92	Reheap, swap 28 & 48
5	76	48	54	65	9	28	22	81	92	Swap root 81 & 5
76	5	48	54	65	9	28	22	81	92	Reheap, swap 5 & 76
76	65	48	54	5	9	28	22	81	92	Reheap, swap 5 & 65
22	65	48	54	5	9	28	76	81	92	Swap root 76 & 22
65	22	48	54	5	9	28	76	81	92	Reheap, swap 22 & 65
65	54	48	22	5	9	28	76	81	92	Reheap, swap 22 & 54
28	54	48	22	5	9	63	76	81	92	Swap root 63 & 28
54	28	48	22	5	9	63	76	81	92	Reheap, swap 28 & 54
9	28	48	22	5	54	63	76	81	92	Swap root 54 & 9
48	28	9	22	5	54	63	76	81	92	Reheap, swap 9 & 48
5	28	9	22	48	54	63	76	81	92	Swap root 48 & 5
28	5	9	22	48	54	63	76	81	92	Reheap, swap 5 & 28
28	22	9	5	48	54	63	76	81	92	Reheap, swap 5 & 22
5	22	9	28	48	54	63	76	81	92	Swap root 28 & 5
22	5	9	28	48	54	63	76	81	92	Reheap, swap 5 & 22
9	5	22	28	48	54	63	76	81	92	Swap root 22 & 9
5	9	22	28	48	54	63	76	81	92	Swap root 9 & 5, finish sorting heap