

Data Structure Homework 7

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Question 1

i round	1	2	3	4	5	6	7	8	9	10
-	56	23	78	12	45	89	34	67	10	49
1	23	56	78	12	45	89	34	67	10	49
2	23	56	78	12	45	89	34	67	10	49
3	12	23	56	78	45	89	34	67	10	49
4	12	23	45	56	78	89	34	67	10	49
5	12	23	45	56	78	89	34	67	10	49

Question 2

I th call	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
-	56	23	78	12	45	89	34	67	10	49
1	23	12	45	34	10	49	56	78	89	67
2	12	10	23	45	34	49	56	78	89	67
3	10	12	23	45	34	49	56	78	89	67
4	10	12	23	34	45	49	56	78	89	67
5	10	12	23	34	45	49	56	67	78	89

Question 3

i round	1	2	3	4	5	6	7	8	9	10
-	56	23	78	12	45	89	34	67	10	49
1	23	56	12	78	45	89	34	67	10	49
2	12	23	56	78	34	45	67	89	10	49
3	12	23	34	45	56	67	78	89	10	49
4	10	12	23	34	45	49	56	67	78	89

Question 4

i round	1	2	3	4	5	6	7	8	9	10
-	56	23	78	12	45	89	34	67	10	49
Step 1	89	67	78	23	49	56	34	12	10	45
Step 2.1	78	67	56	23	49	45	34	12	10	89
Step 2.2	67	49	56	23	10	45	34	12	78	89
Step 2.3	56	49	45	23	10	12	34	67	78	89
Step 2.4	49	34	45	23	10	12	56	67	78	89
Step 2.5	45	34	12	23	10	49	56	67	78	89

Question 5

Perform LSD

Iteration 1	0	1	2	3	4	5	6	7	8	9
bucket		11,41	12,32	23,53	34	65,45	56	87,7	98,78	89

merge after iteration 1

11,41,12,32,23,53,34,65,45,56,87,7,98,78,89

Iteration 2	0	1	2	3	4	5	6	7	8	9
bucket	7	11,12	23	32,34	41,45	53,56	65	78	87,89	98

merge after iteration 2

7, 11, 12, 23, 32, 34, 41, 45, 53, 56, 65, 78, 87, 89, 98

Perform MSD

Iteration 1	0	1	2	3	4	5	6	7	8	9
bucket	7	12,11	23	34,32	45,41	56,53	65	78	87,89	98

merge after iteration 1

7,12,11,23,34,32,45,41,56,53,65,78,87,89,98

Iteration 2	0	1	2	3	4	5	6	7	8	9
sub-bucket	7	11,12	23	32,34	41,45	53,56	65	78	87,89	98

merge after iteration 2

7, 11, 12, 23, 32, 34, 41, 45, 53, 56, 65, 78, 87, 89, 98