Merge Sort

PAGE No.
DATE / /

Q. Sort the array using Merge sort and also show split tree and merge tree for the same

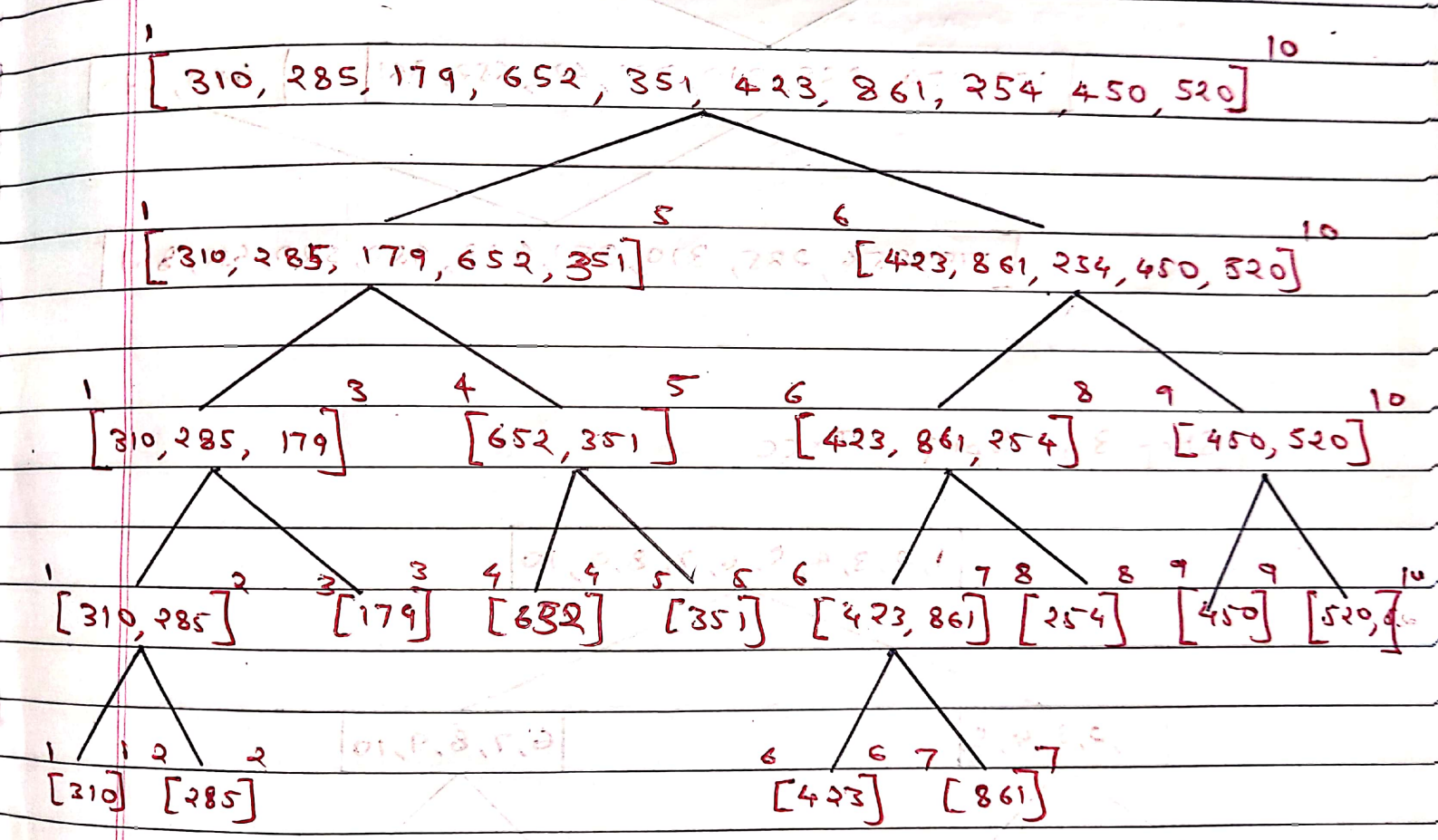
310, 285, 179, 652, 351, 423, 861, 254, 450, 520

Sol^n:

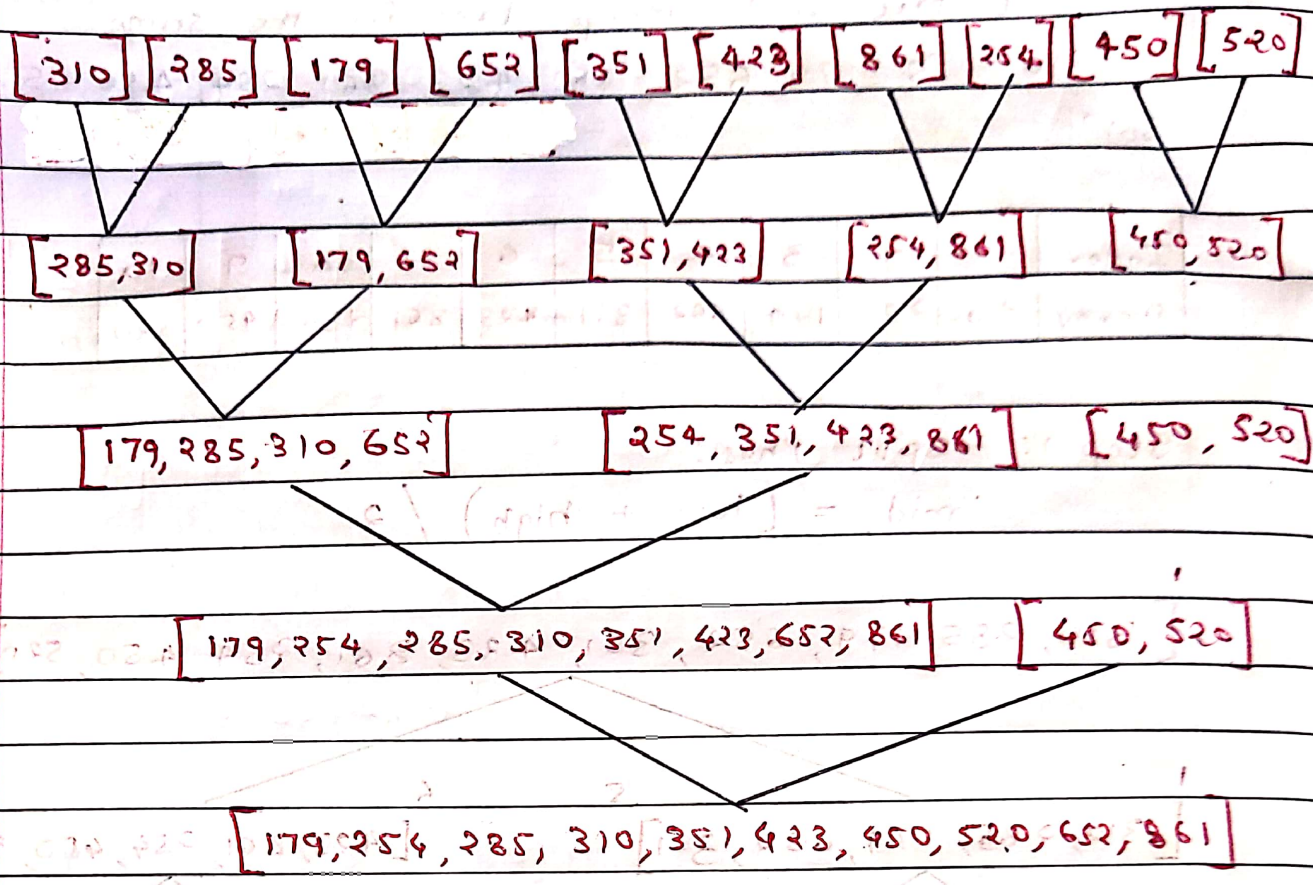
Index	1	2	3	4	5	6	7	8	9	10
Array	310	285	179	652	351	423	861	254	450	520

Step 1: Split Phase

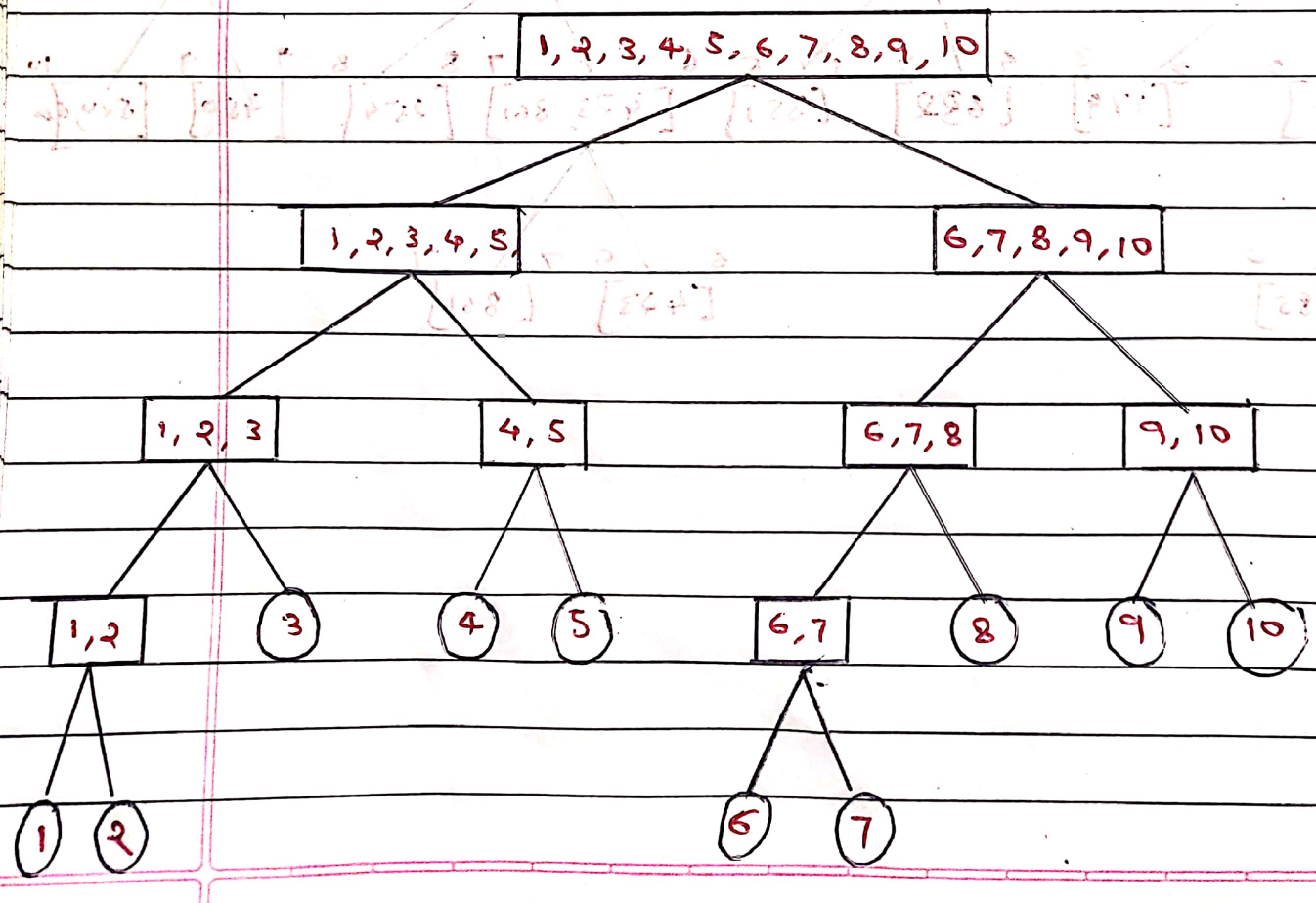
mid = (low + high) / 2



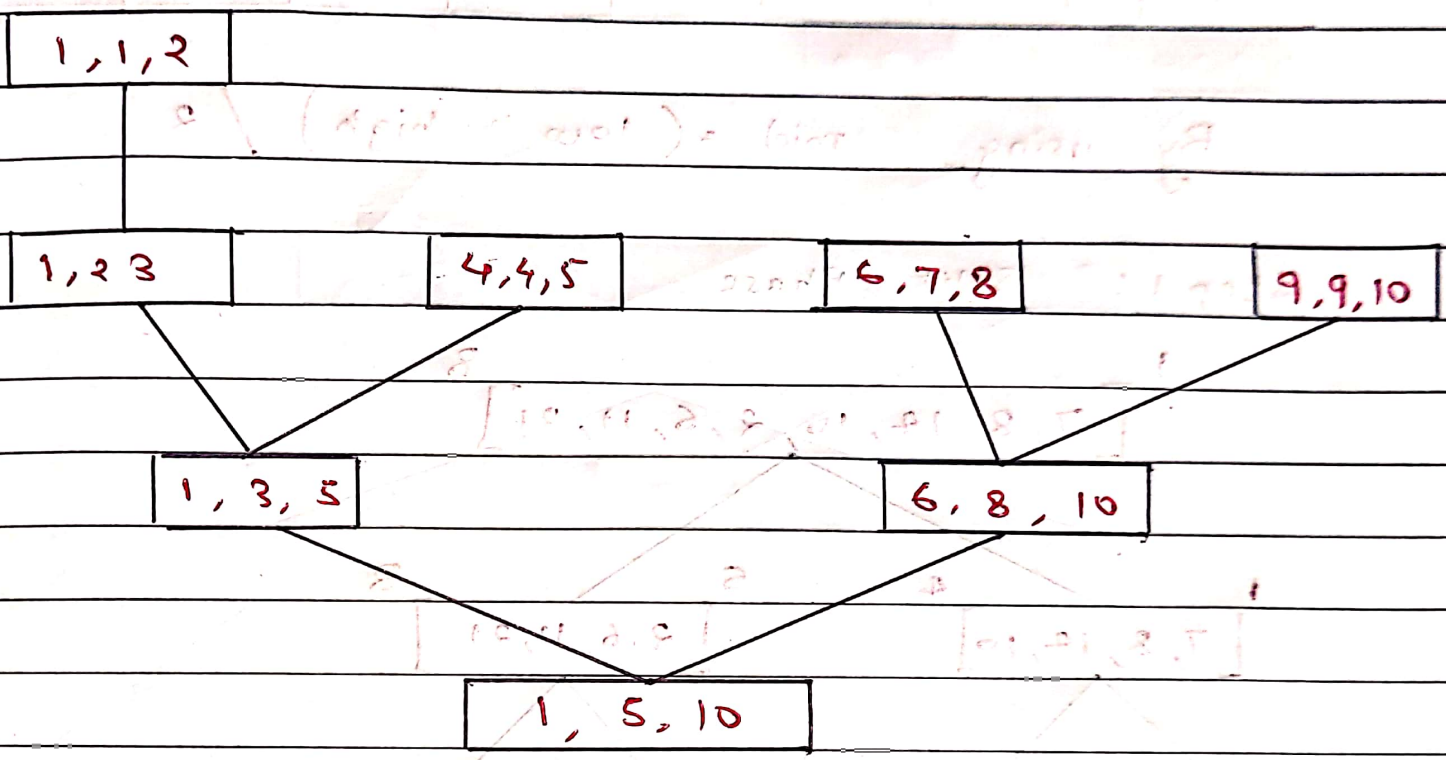
Step 2: Merge Phase



Step 3: Split Tree



Step 4: Merge Tree



mid = (low + high) / 2

Q. Sort the array using Merge sort and also draw split tree and merge tree for the same.

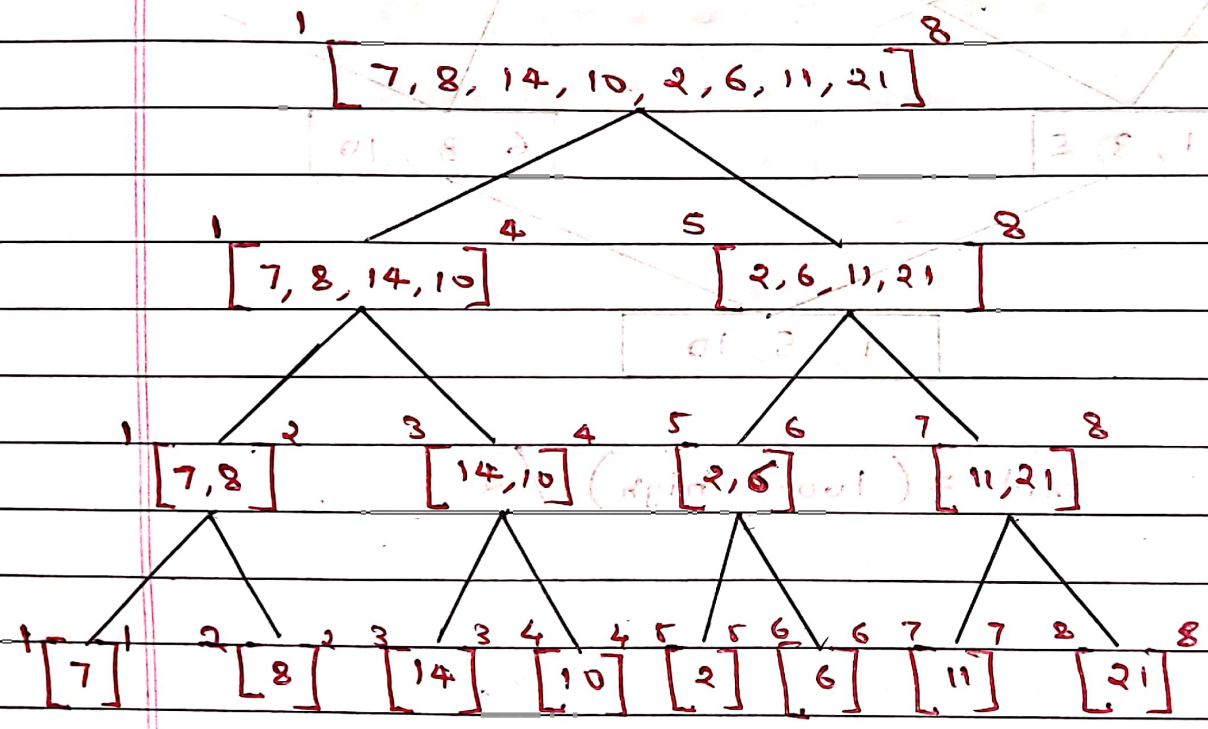
7, 8, 14, 10, 2, 6, 11, 21

Soln:

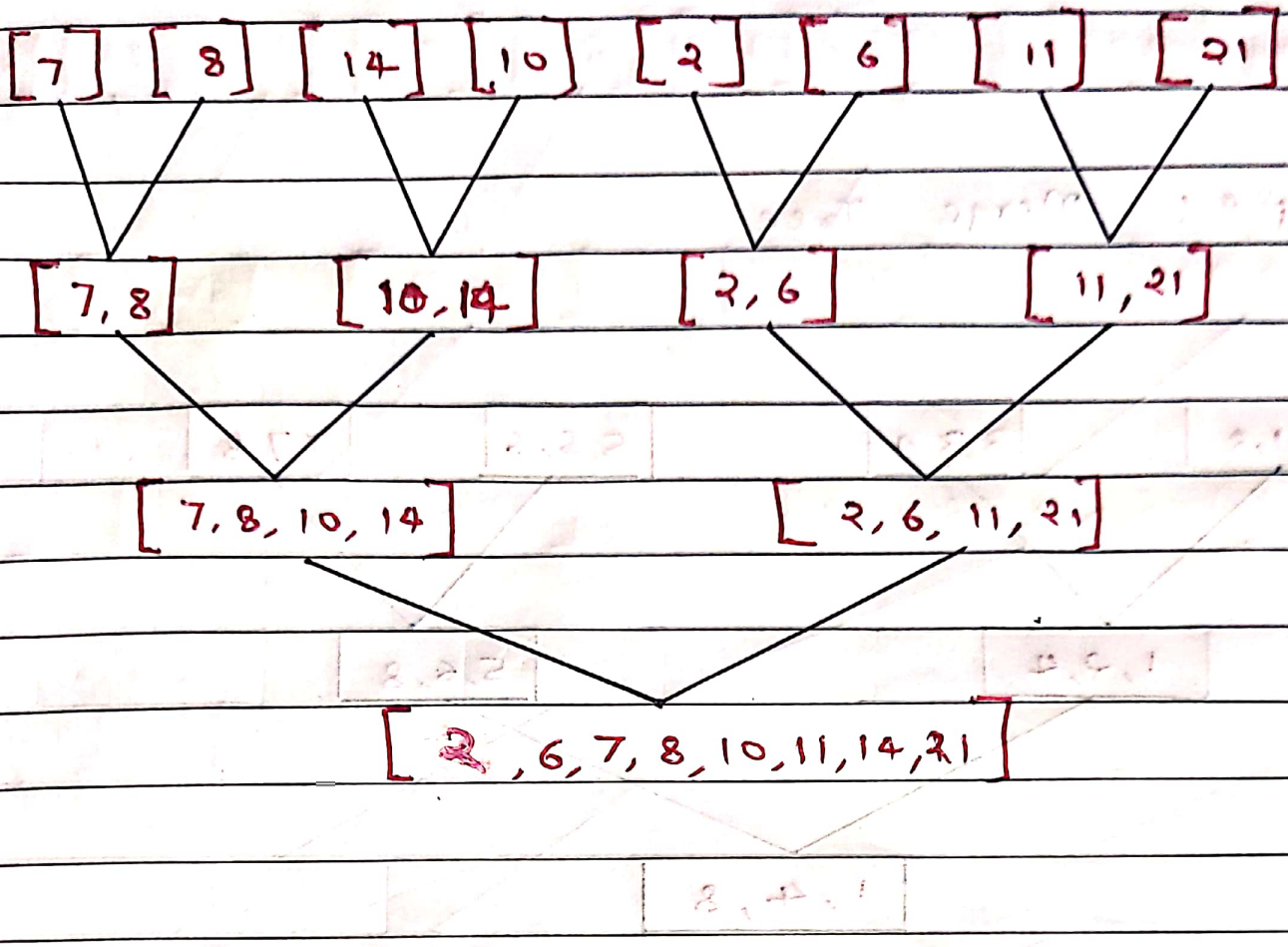
Index	1	2	3	4	5	6	7	8
Array	7	8	14	10	2	6	11	21

By using, mid = (low + high) / 2

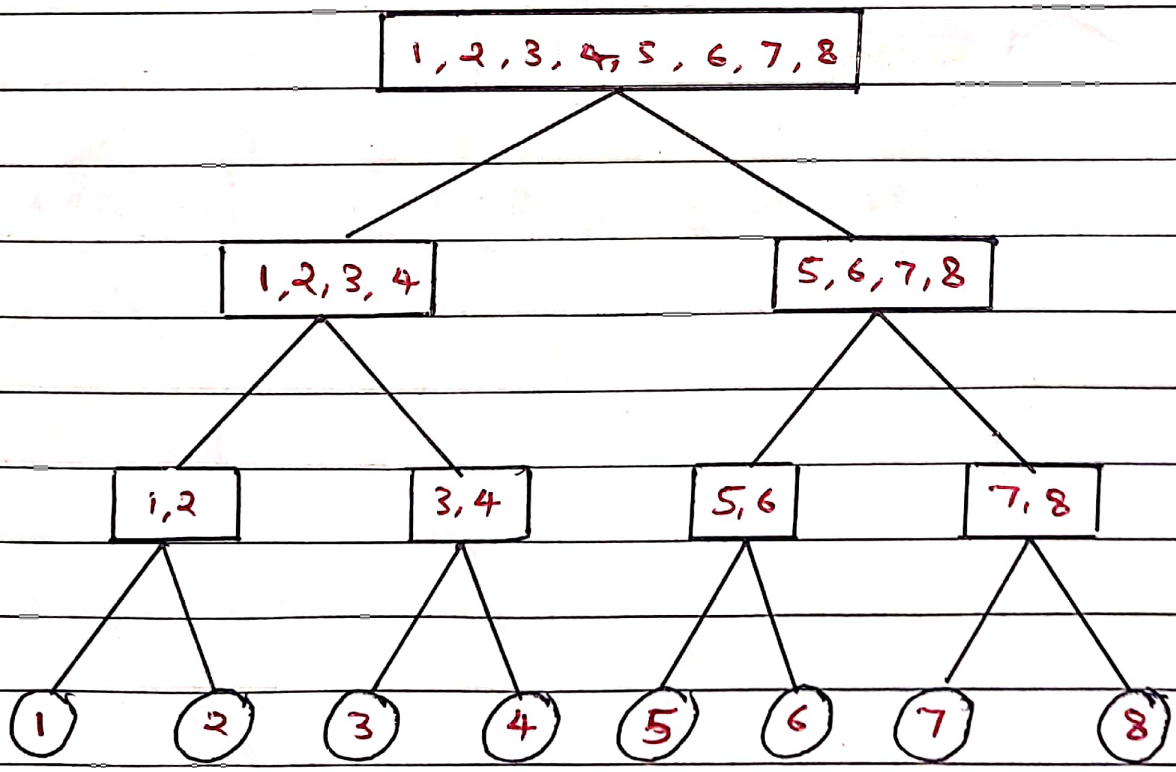
Step 1: Split Phase



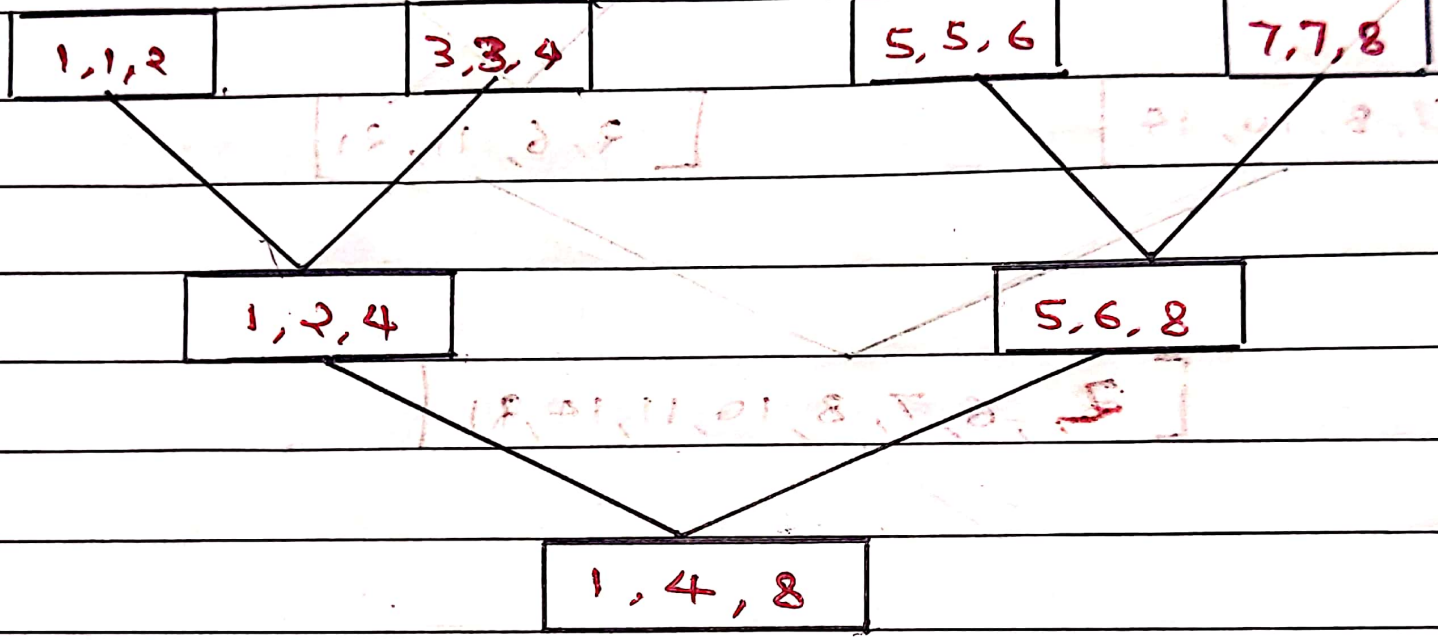
Step 2 : Merge Phase



Step 3 : Split Tree



Step 4 : Merge Tree



Q. Sort the array using Merge sort also, draw split tree and merge tree for the same.

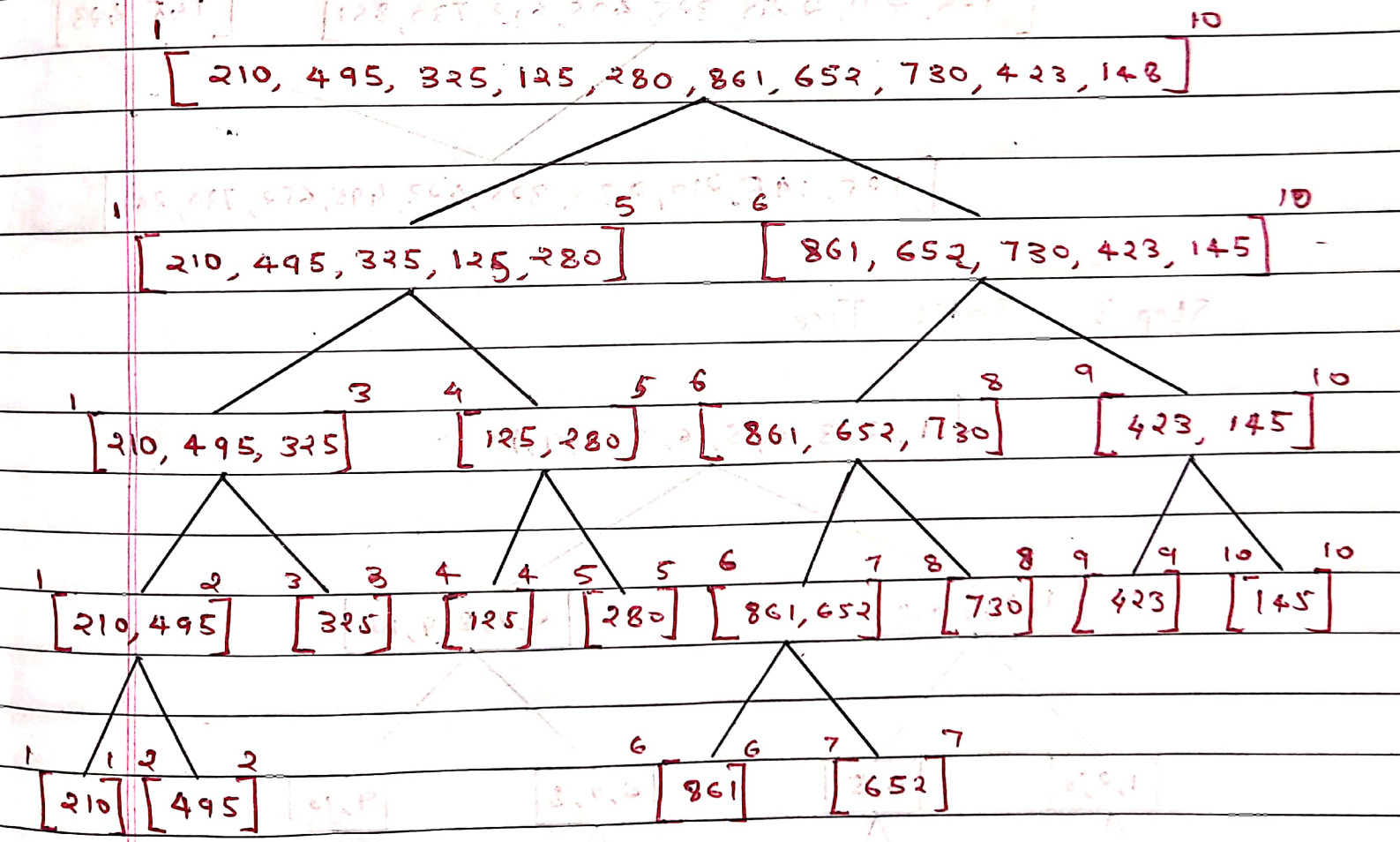
210, 495, 325, 125, 280, 861, 652, 730, 423, 148

Soln:

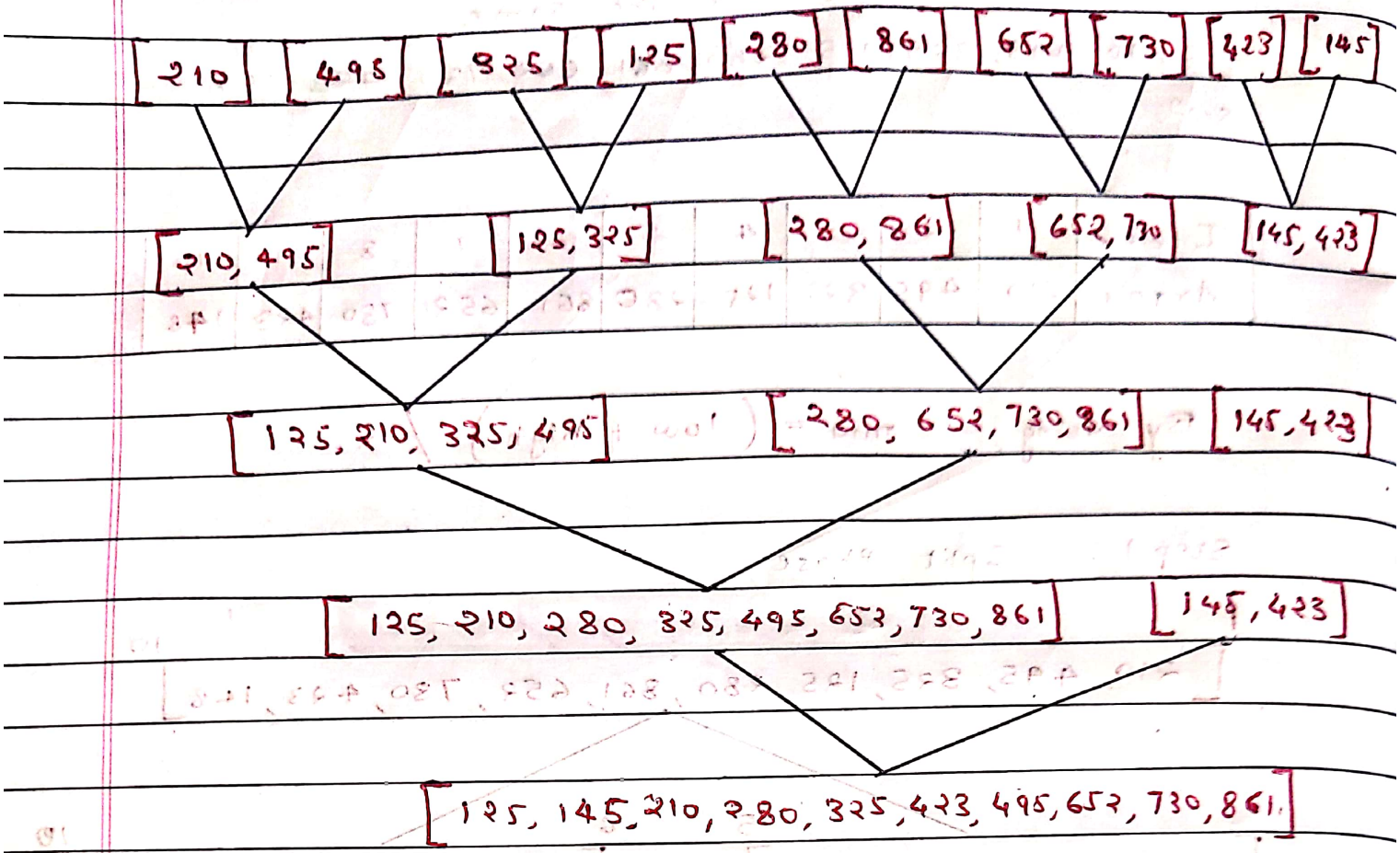
Index	1	2	3	4	5	6	7	8	9	10
Array	210	495	325	125	280	861	652	730	423	148

By using, mid = (low + high) / 2

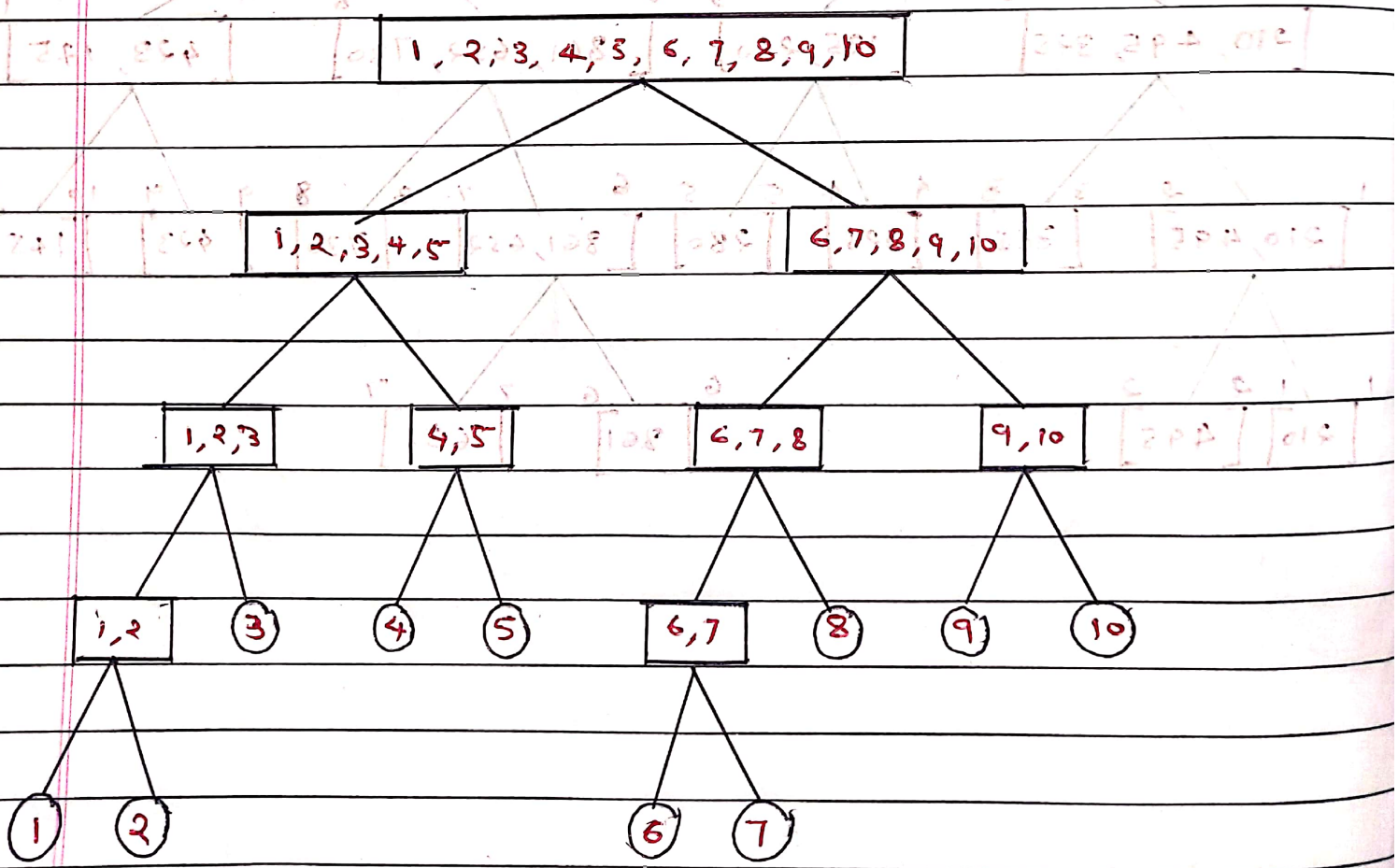
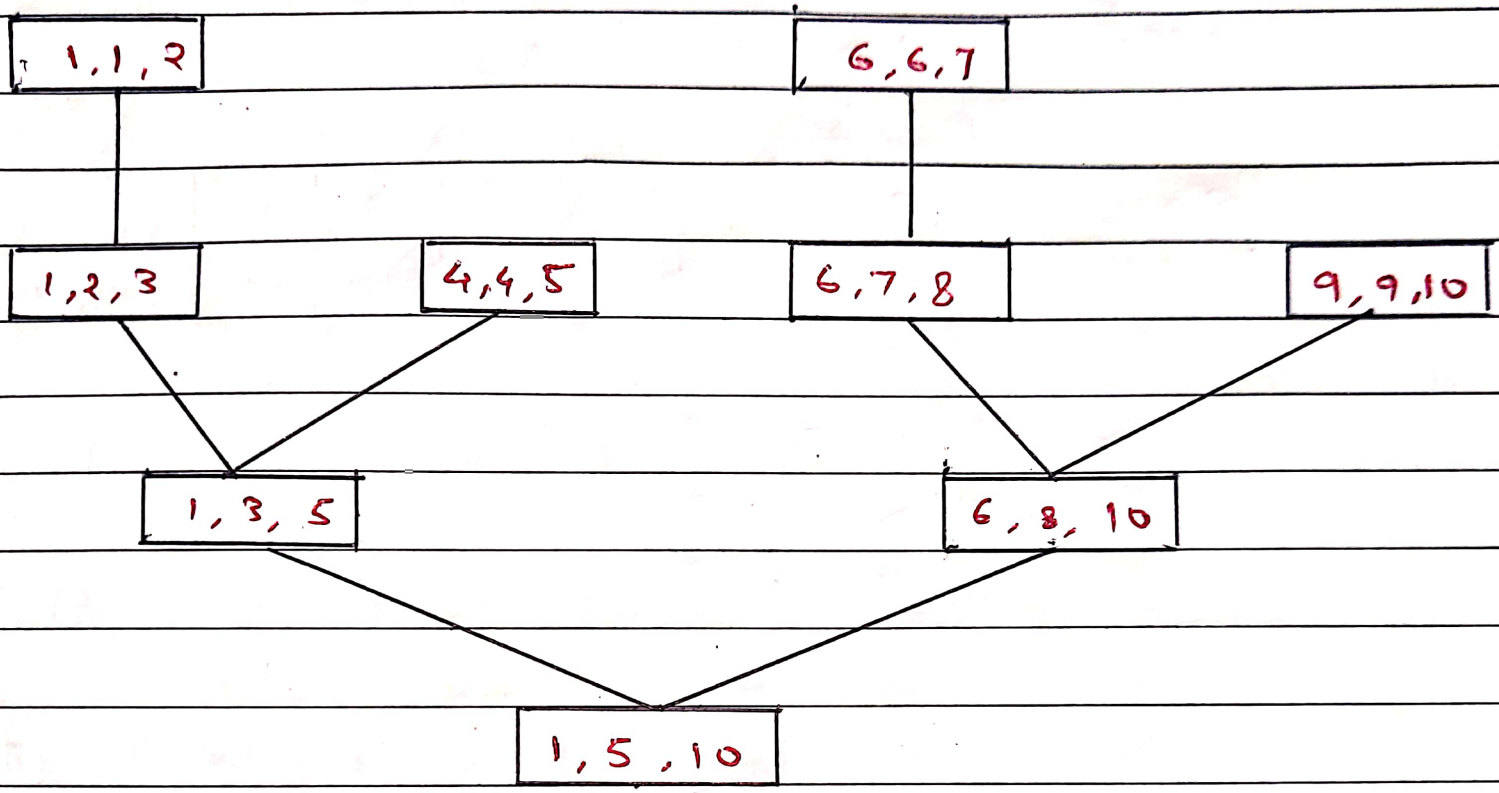
Step 1 : Split Phase



Step 2: Merge Phase



Step 3: Split Tree



Step 4 : Merge Tree