**Cycle 8 questions :**

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| 1.a.Given vertex address(number),find out the level ? Locate the vertex and write the algorithm  b. Given two vertices Vi and Vj .Trace the path of traversal. | 2.Nageshwari. |
| 2. a.Give an example for best and worst case and design an algorithm to find out a heap? also check whether it is max heap or min heap  b. Trace the movement of every element in the heap. | Shushma and Prajwala |
| 3.Create a heap ,given elements (a1,a2,......an)  a.Choose a sequence to post the elements into the complete binary tree.  b.Check if the complete binary tree is a heap  c. Trace the movement of every element in the heap. | 1.Nandini.  2.Abilash |
| 4.a.Find all the possible heaps for a set of n elements (min type,max type)  b. Trace the movement of every element in the heap. | 1.Navya.  2.Amruth |
| 5.Implement heap insertion  a.min type module  b.max type module  c. Trace the movement of every element in the heap. | 1.Roopa  2.Shashirekha. |
| 6.a.Create a heap both of min type and max type  From a heap locate {1st largest, 2nd largest............,kth largest }  If it is min type find{1st smallest,2nd smallest..............kth smallest}  b. Trace the movement of every element in the heap. | 1. Anusha  2. Nimisha |
| 7.a.Heap deletion.heap start with 2level ,3 level ,4level ......And need to delete root itself .Allow that distributing node is min type.  b.Solve for editing the heap content and  trace the movement of every element in the heap . | 1.Roshini.  2.Anjan. |
| 8.a.Implement Heapsort algorithm and trace the movement.  b.Find out the largest and drop element ,continue to the kth element. | Murli Kulkarni |
| 9.a.Create a heap by Adjustment algorithm primary and secondary point.  b. Trace the movement of every element in the heap. | 1.Ashwini.N R  2.Deepika A B |