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| 1 | a)Search max and min simultaneously and profile.  b)Find the second largest and second smallest also. Using DCC | Anjan  roshini |
| 2 | a)Find out max and min of every row and hence max and min of whole matrix.  b) Find out max and min of every column and hence max and min of whole matrix. | Prajwala  Shushma |
| 3 | a)Given a set of complete numbers find out the largest and smallest complex number with reference to its absolute value of complex number (radial value).  b) Given a set of complete numbers find out the largest and smallest complex number with reference to polar value of complex number. | Nageshwari |
| 4 | 1. MERGE SORT(tracing of elements has to be done) 2. If recursive division is stopped at a level where each subset contains 2 elements, then we design merge sort. Re –analyse 3. Recursively divide till each of set contains 3 elements. Conquer the b3 elements to put them in sequence(S, M, L). Re design the merge sort and re analyse. 4. Generalize to stop where the last level contains 2 or 3 elements(dont make it 1 element). | murali |
| 5 | Conventional quick sort, modified quick sort, intelligent quick sort by inserting.  Make use of binary search(log n) to insert new element instead of sequential search(n). | Nandini  Abhilash |
| 6 | Find the kth largest and kth smallest. | Navya  Amruth |
| 7 | 1. 1+x+x2+x3+x4+x5+x6+x7+x8+x9+x10 2. Find variance, mean and median for a group of n elements. Given a0, a1, a2, a3, a4, a5, a6 ... | Nimisha  Anusha |
| 8 | Multiplication of numbers using DCC  Eg: 3642\*3614  Find time complexity | Deepika  Ashwini |
| 9 | Given two matrices A and B, find the product of A and B. | Roopa  Shashirekha |

**CYCLE 11:**

**METHOD:DIVIDE, CONQUER AND COMBINE**