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**School of Computer Science and Engineering**

(CSE1004: Problem Solving using JAVA)

Non-Evaluative Programs- Lab 5

Q1. Write a Java program to reverse an array.

Input: read n and read an array of n elements

output: display reversed array

Test cases :

1. Input: 9 11 12 13 14 15 16 17 18 19

Expected output: 19 18 17 16 15 14 13 12 11

1. Input: 10 1 2 3 4 5 6 7 8 9 10

Expected output: 10 9 8 7 6 5 4 3 2 1

Q2. Write a Java program to sort a numeric array in ascending order.

Input: read n and read an array of n elements

output: display sorted array

Test cases:

1. Input: 10 21 12 33 24 15 16 37 18 19 7

Expected output: 7 12 15 16 18 19 21 24 33 37

1. Input: 9 21 12 33 24 15 16 37 18 19

Expected output: 12 15 16 18 19 21 24 33 37

Q3. Write a Java program to find the second smallest element in an array.

Note: all the numbers in array are less than 1000

Input: read n and read an array of n elements

output: display second smallest element

Test cases:

1. Input: 10 21 1 33 24 15 16 37 18 19 7

Expected output: 7

1. Input: 10 21 12 33 24 15 16 37 18 19 7

Expected output: 12

Q4. Write a Java program to find the common elements between two arrays of integers.

Note: Both the arrays have same length

Input: read n and read two array of n elements

Expected output: display common elements

Test cases:

1. Input: 8 21 18 33 24 15 16 37 18 19 7 1 11 37 16 45 43

Expected output: 16 37

1. Input: 10 21 18 33 24 15 16 37 18 19 7 1 100 37 16 45 43 23 2 3 33

Expected output: 33 16 37