SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Kattankulathur

School of Computing

21CSC201J – Data Structures and Algorithms

Topic: Inserting an Element into an Array

Activity: Fill the missing Pseudocode

Algorithm to append a new element VAL to an existing array

Step 1 : Set upper_bound = 5 ;

Step 2 : Set A[upper_bound] = VAL ;

Step 3 : EXIT

Algorithm to insert an element VAL in the middle of an array given a position POS

Step 1 : [INITIALIZATION] SET I= 1

Step 2 : Repeat Steps 3 and 4 while I <= N

Step 3 :   SET A[POS + I] = A[I]

Step 4 :   SET I = I + 1

        [END OF LOOP]

Step 5 : SET N = N + 1

Step 6 : SET A[POS] = VAL

Step 7 : EXIT