Selection Sort Algorithm

START

 Step 1 : [INITIALIZE] Array

 Step 2: [INITIALIZE] Size of Array

 Step 3: [CALL] SELECTION SORT(arr, n)

 Step 4: Repeat Steps 2 and 3 for i = 0 to n-1

Step 5: CALL SMALLEST(arr, i, n, pos)

Step 6: SWAP arr[i] with arr[pos]

[END OF LOOP]

Step 7: EXIT

 SMALLEST (arr, i, n, pos)

Step 8: [INITIALIZE] SET SMALL = arr[i]

Step 9: [INITIALIZE] SET pos = i

Step 10: Repeat for j = i+1 to n

if (SMALL > arr[j])

    SET SMALL = arr[j]

SET pos = j

END OF if]

[END OF LOOP]

Step 4: RETURN pos

    [RETURN TO MAIN]

    PRINT POSITION

    END