BASIC SORTING SOLUTIONS

Solution (a): Bubble Sort

APNA

Solution (b): Selection Sort

```
public static void selectionSortDescending(int arr[]) {
    for(int turn=0; turn<arr.length; turn++) {
        int minPos = turn;
        for(int j=turn+1; j<arr.length; j++) {
            if(arr[minPos] < arr[j]) {
                minPos = j;
            }
        }
        //swap
        int temp = arr[turn];
        arr[turn] = arr[minPos];
        arr[minPos] = temp;
    }
}</pre>
```

Solution (c): Insertion Sort

```
int prev = i-1;
           arr[prev+1] = curr;
Solution (d): Counting Sort
public static void countingSortDescending(int arr[]) {
       for(int i=0; i<arr.length; i++) {</pre>
           largest = Math.max(largest, arr[i]);
       int count[] = new int[largest+1];
           count[arr[i]]++;
       for(int i=count.length-1; i>=0; i--) {
```