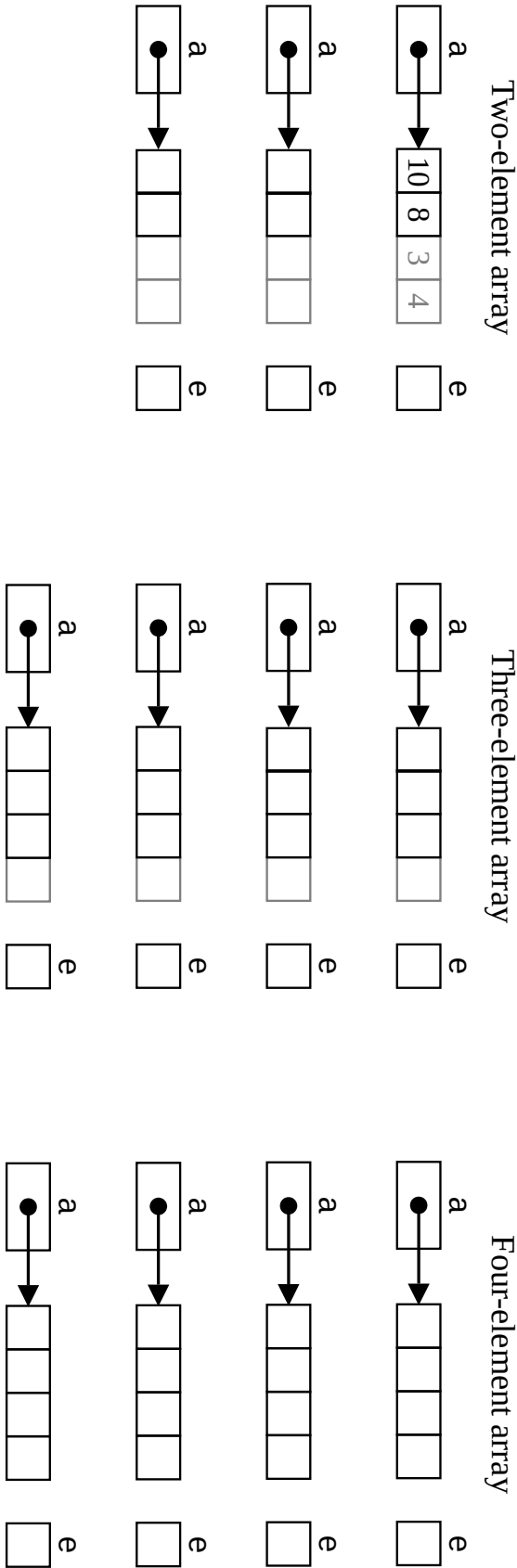


Worksheet: Insertion Sort 1

1. Study and understand the Java code for the **insertion sort** algorithm, then draw a flowchart of the algorithm.

```
public static void insertionSort(int[] e) {  
    // start with a list of two elements, and keep increasing the list size until the full list is  
    // being considered  
    for (int j = 1; j < e.length; j++) {  
        int temp = e[j];          // move element at index j to temp  
        int possibleIndex = j;  
        // Shift elements until the start of list, or the element stored in temp is  
        // greater than or equal to the element before the current index  
        while (possibleIndex > 0 && temp < e[possibleIndex-1]) {  
            e[possibleIndex] = e[possibleIndex-1];  
            possibleIndex--;  
        }  
        e[possibleIndex] = temp; // save element to the correct position  
    }  
}
```

2. Follow the steps of the *insertion sort* algorithm to sort the given array.



Three-element array

a

→

e

a

→

e

a

→

e

a

→

e

Four-element array

a

→

e

a

→

e

a

→

e

a

→

e