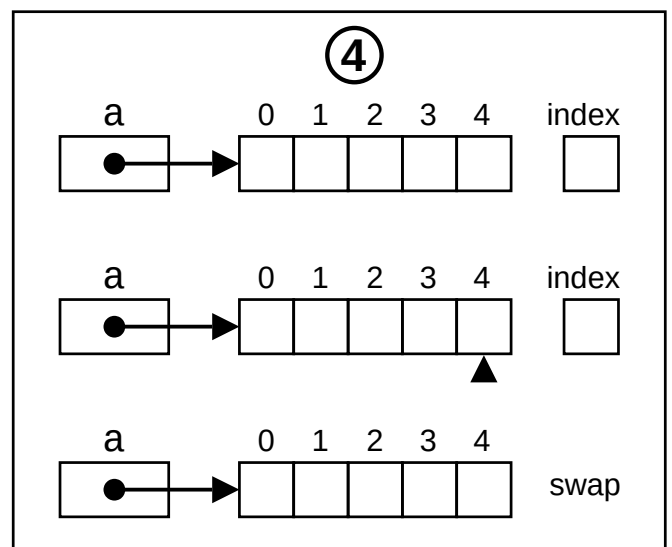
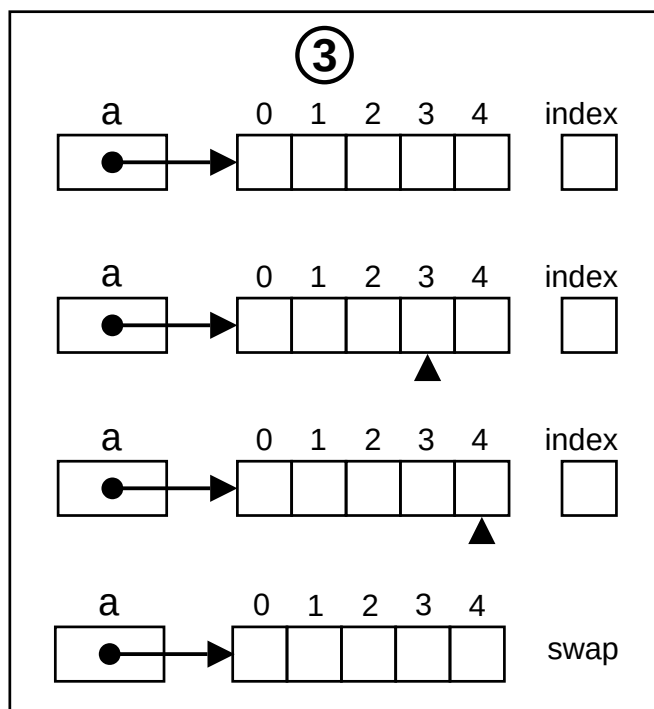
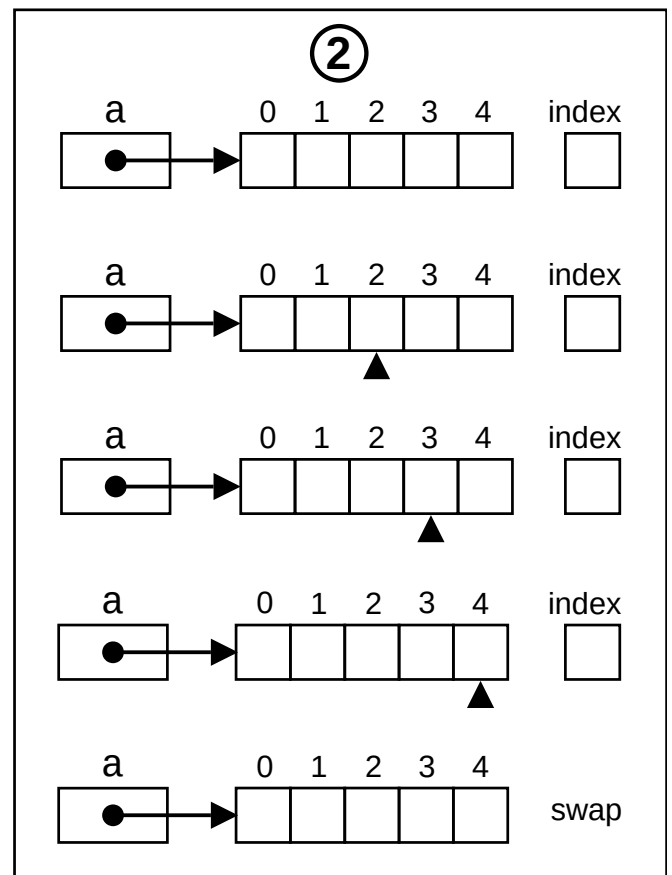
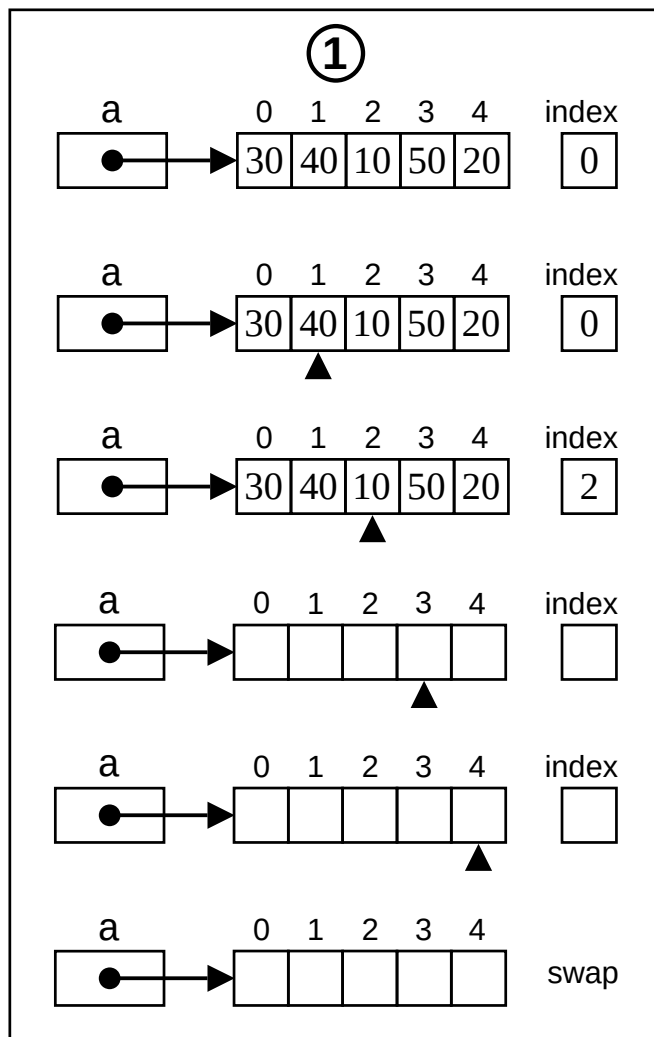


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1. Using the selection sort algorithm, complete the diagram below.



Worksheet – Selection Sort 1

2. Given the code, draw a flowchart diagram of the **selection sort** algorithm in the box below.

```
private static void selectionSort(int[] a) {  
    // loop through array until penultimate element  
    for(int i = 0; i<a.length-1; i++) {  
        // loop through the array to find smallest  
        int index = i; // index of smallest  
        for(int j = i+1; j<a.length; j++) {  
            if(a[j] < a[index]) {  
                index = j;  
            }  
        }  
        // if the first is not the smallest, swap  
        if(i != index) {  
            swap(a, i, index);  
        }  
    }  
}
```