## 12 A. SELECTION SORT

```
package sorting;
public class SelectionSort {
                public static void selectionSort(int[] array) {
           int n = array.length;
           // One by one move the boundary of the unsorted subarray
           for (int i = 0; i < n - 1; i++) {
              // Find the minimum element in the unsorted array
              int minIndex = i;
              for (int j = i + 1; j < n; j++) {
                 if (array[i] < array[minIndex]) {</pre>
                   minIndex = j;
                 }
              }
              // Swap the found minimum element with the first element
              int temp = array[minIndex];
              array[minIndex] = array[i];
              array[i] = temp;
            }
         }
         public static void main(String[] args) {
           int[] array = {64, 25, 12, 22, 11};
           System.out.println("Original array:");
           for(int i=0;i<array.length;i++) {</pre>
             System.out.print(array[i]+" ");
            }
           selectionSort(array);
           System.out.println("\nSorted array:");
           for(int i=0;i<array.length;i++) {</pre>
             System.out.print(array[i]+" ");
            }
       }
}
```