1.

```
public void sort() {
   int n = array.length;
   boolean swapped;

   for(int i = 0; i < n - 1; i++ ) {
      swapped = false;

      for(int j = 0; j < n - i - 1; j++) {
         if(array[j] > array[j + 1]) {
            int temp = array[j];
            array[j] = array[j + 1];
            array[j + 1] = temp;
            swapped = true;
         }
      }

      if(!swapped) {
         break;
      }
   }
}

public void show() {
   try {
      System.out.println("Array ordenado de mayor a menor:");
      for(int num : array) {
         if (num > array.length + 1) {
            throw new ArrayIndexOutOfBoundsException("Índice fuera de límites.");
         }
         System.out.println(num + "");
      }
      System.out.println();
   } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("Error: " + e.getMessage());
   }
}
```

2.

```
public void show() throws ArrayIndexOutOfBoundsException {
   System.out.println("Array ordenado de mayor a menor:");
   for(int num : array) {
      if (num > array.length + 1) {
         throw new ArrayIndexOutOfBoundsException("Índice fuera de límites.");
      }
      System.out.println(num + "");
   }
   System.out.println();
}

public static void main(String[] args) {
   SortedArray sortedArray = new SortedArray();
```

```
    sortedArray.sort();
    try {
        sortedArray.show();
    } catch (ArrayIndexOutOfBoundsException e) {
        System.out.println("Error: " + e.getMessage());
    }
}
```