***Merge two sorted arrays:***

1. two pointers:

**while** (i < array1.length && j < array2.length) {

**array**[k++] = (array1[i] <= array2[j] ? array1[i++] : array2[j++]);

}

**while** (i < array1.length) {

**array**[k++] = array1[i++];

}

**while** (j < array2.length) {

**array**[k++] = array2[j++];

}

2.

**while** (i < array1.length) {

**while** (j < array2.length && array2[j] < array1[i]) {

**array**[k++] = array2[j++];

}

**array**[k++] = array1[i++];

}

**while** (j < array2.length) {

**array**[k++] = array2[j++];

}