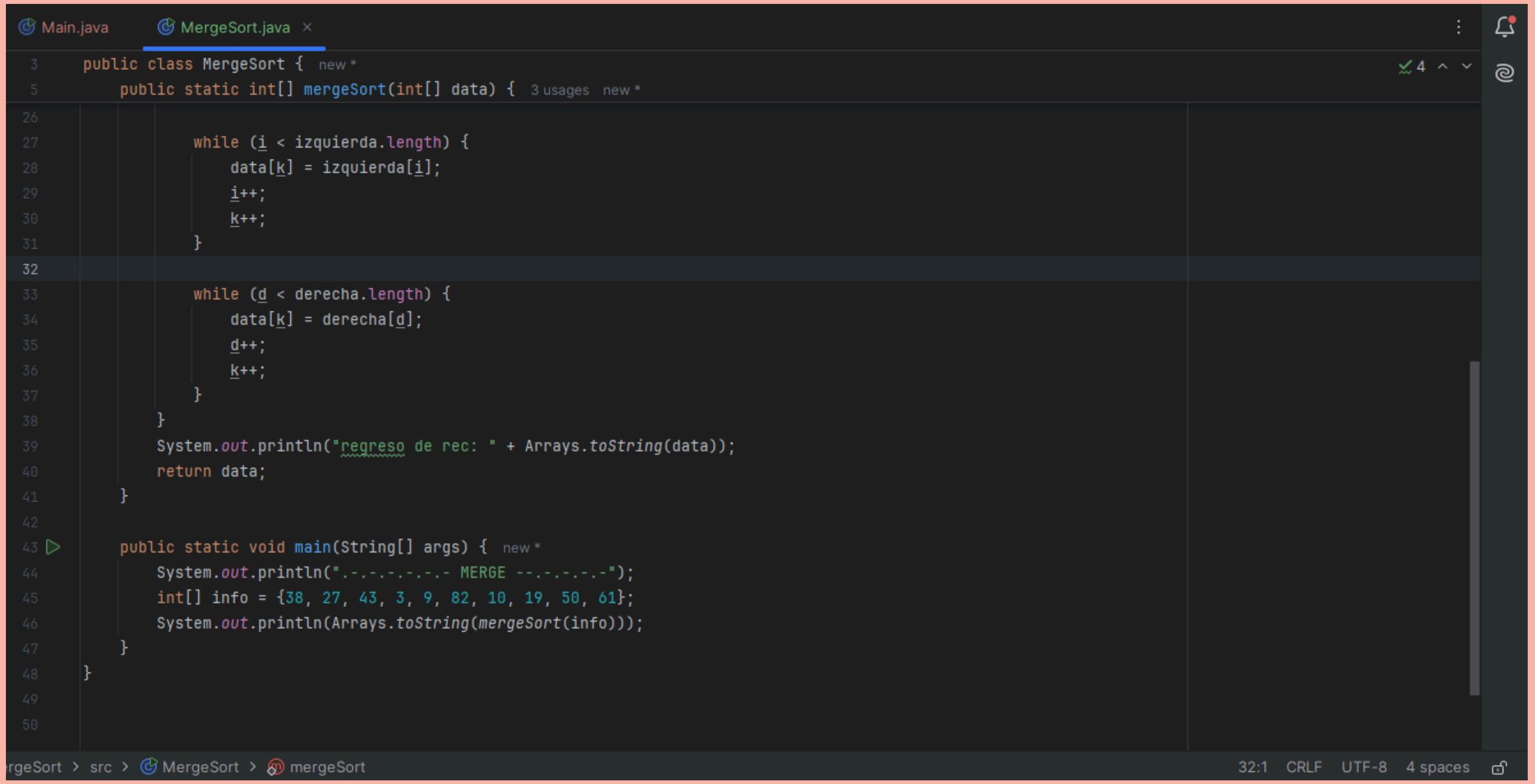
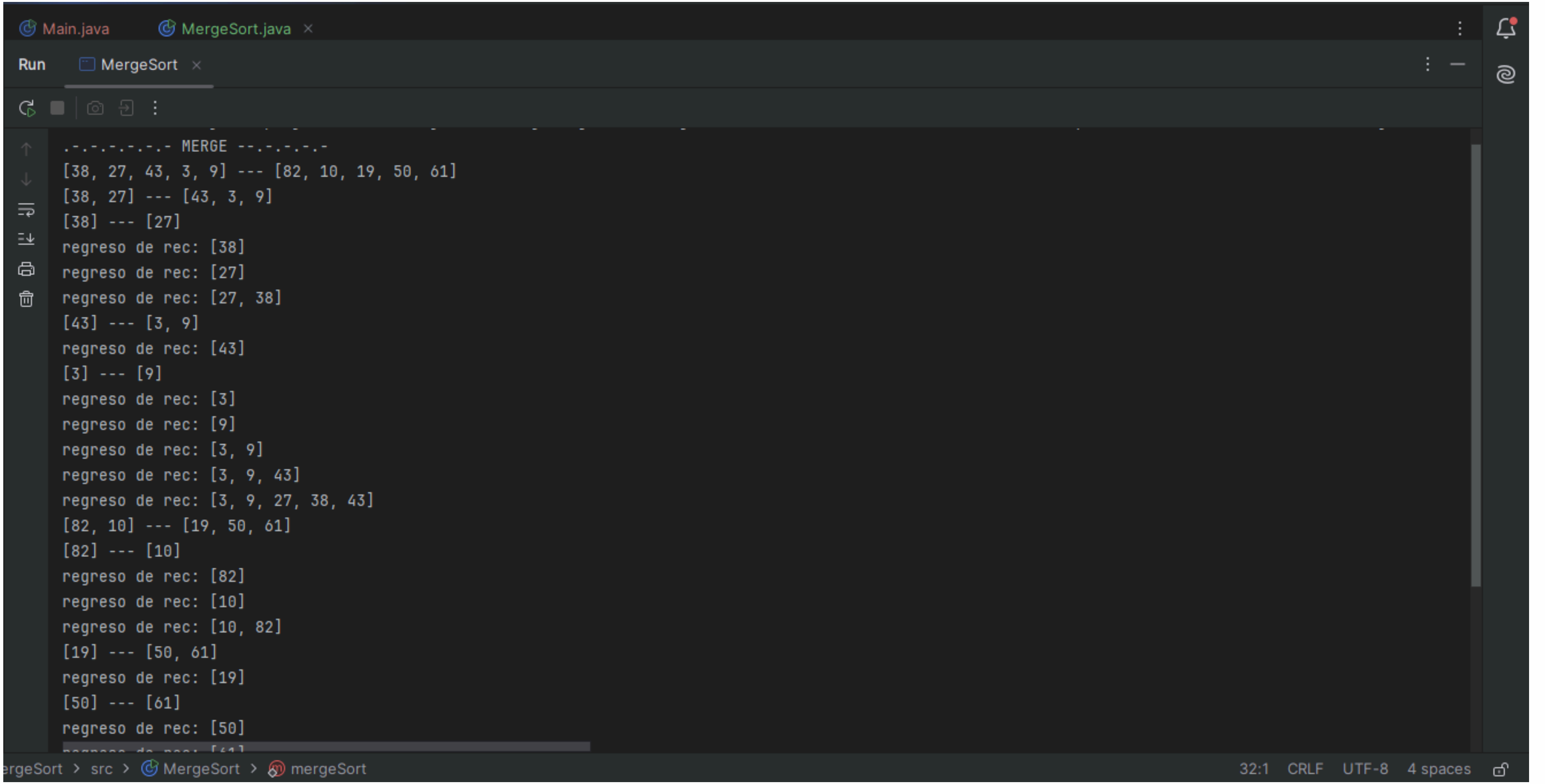
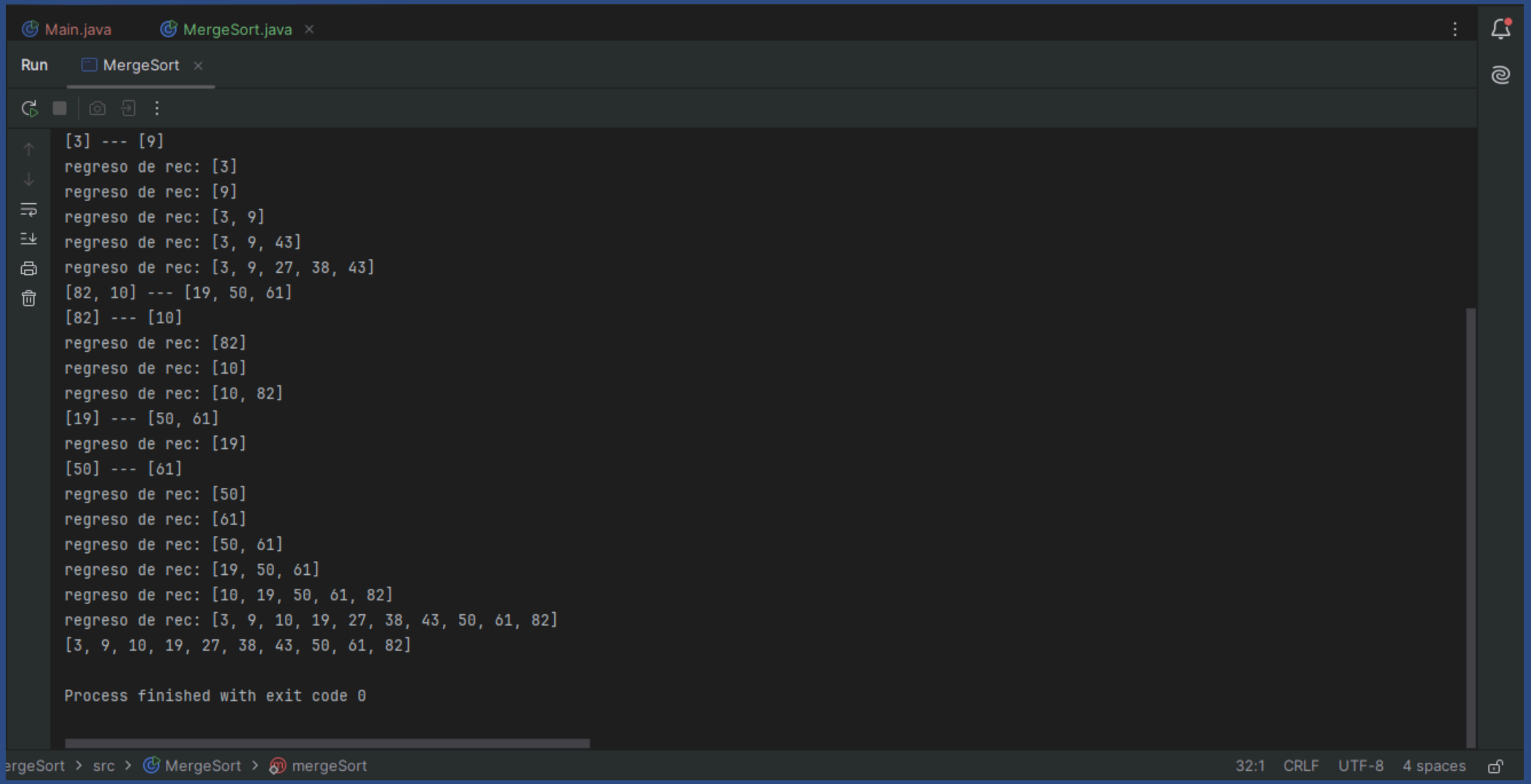
Algoritmo mergeSort en java


Main.java
MergeSort.java
import java.util.Arrays;
public class MergeSort { new *
public static int[] mergeSort(int[] data) { 3 usages new *
if (data.length > 1) {
int mitad = data.length / 2;
int[] izquierda = Arrays.copyOfRange(data, from: 0, mitad);
int[] derecha = Arrays.copyOfRange(data, mitad, data.length);
System.out.println(Arrays.toString(izquierda) + " --- " + Arrays.toString(derecha));
mergeSort(izquierda);
mergeSort(derecha);
int i = 0, d = 0, k = 0;
while (i < izquierda.length && d < derecha.length) {
if (izquierda[i] < derecha[d]) {
data[k] = izquierda[i];
i++;
} else {
data[k] = derecha[d];
d++;
}
k++;
}
while (i < izquierda.length) {
4
ergeSort > src > MergeSort > mergeSort
32:1
CRLF
UTF-8
4 spaces


Main.java
MergeSort.java
public class MergeSort { new *
public static int[] mergeSort(int[] data) { 3 usages new *
while (i < izquierda.length) {
data[k] = izquierda[i];
i++;
k++;
}
while (d < derecha.length) {
data[k] = derecha[d];
d++;
k++;
}
}
System.out.println("regreso de rec: " + Arrays.toString(data));
return data;
}
public static void main(String[] args) { new *
System.out.println(".-.-.-.-.-.- MERGE --.-.-.-.-");
int[] info = {38, 27, 43, 3, 9, 82, 10, 19, 50, 61};
System.out.println(Arrays.toString(mergeSort(info)));
}
}
4
rgeSort > src > MergeSort > mergeSort
32:1 CRLF UTF-8 4 spaces


Main.java
MergeSort.java
Run
MergeSort
.-.-.-.-.-.- MERGE --.-.-.-.-
[38, 27, 43, 3, 9] --- [82, 10, 19, 50, 61]
[38, 27] --- [43, 3, 9]
[38] --- [27]
regreso de rec: [38]
regreso de rec: [27]
regreso de rec: [27, 38]
[43] --- [3, 9]
regreso de rec: [43]
[3] --- [9]
regreso de rec: [3]
regreso de rec: [9]
regreso de rec: [3, 9]
regreso de rec: [3, 9, 43]
regreso de rec: [3, 9, 27, 38, 43]
[82, 10] --- [19, 50, 61]
[82] --- [10]
regreso de rec: [82]
regreso de rec: [10]
regreso de rec: [10, 82]
[19] --- [50, 61]
regreso de rec: [19]
[50] --- [61]
regreso de rec: [50]
ergeSort > src > MergeSort > mergeSort
32:1
CRLF
UTF-8
4 spaces


Main.java
MergeSort.java
Run
MergeSort
[3] --- [9]
regreso de rec: [3]
regreso de rec: [9]
regreso de rec: [3, 9]
regreso de rec: [3, 9, 43]
regreso de rec: [3, 9, 27, 38, 43]
[82, 10] --- [19, 50, 61]
[82] --- [10]
regreso de rec: [82]
regreso de rec: [10]
regreso de rec: [10, 82]
[19] --- [50, 61]
regreso de rec: [19]
[50] --- [61]
regreso de rec: [50]
regreso de rec: [61]
regreso de rec: [50, 61]
regreso de rec: [19, 50, 61]
regreso de rec: [10, 19, 50, 61, 82]
regreso de rec: [3, 9, 10, 19, 27, 38, 43, 50, 61, 82]
[3, 9, 10, 19, 27, 38, 43, 50, 61, 82]
Process finished with exit code 0
ergeSort > src > MergeSort > mergeSort
32:1
CRLF
UTF-8
4 spaces