public class Main {

public static void main(String[] args) {

int[] a = {2, 9, 18, 21, 22};

int[] b = {1, 3, 6, 19, 27, 30};

int[] c = new int[a.length + b.length];

int i = 0, j = 0, k = 0;

// Merge both arrays until one is exhausted

while (i < a.length && j < b.length) {

if (a[i] < b[j]) {

c[k++] = a[i++];

} else {

c[k++] = b[j++];

}

}

// Copy any remaining elements from array a

while (i < a.length) {

c[k++] = a[i++];

}

// Copy any remaining elements from array b

while (j < b.length) {

c[k++] = b[j++];

}

// Print merged array

System.out.println("Elements in merged array:");

for (int x = 0; x < c.length; x++) {

System.out.print(c[x] + " ");

}

}

}