

Main.java



Run

Output

Clear

```
1 import java.util.ArrayList;
2 import java.util.List;
3 public class MergeSortedArrays {
4     public static void main(String[] args) {
5         int[] arr1 = {1, 3, 4, 5};
6         int[] arr2 = {2, 4, 6, 8};
7         List<Integer> mergedList = mergeArrays(arr1, arr2);
8         int[] arr3 = new int[mergedList.size()];
9         for (int i = 0; i < mergedList.size(); i++) {
10             arr3[i] = mergedList.get(i);
11         }
12         System.out.print("arr3[] = { ");
13         for (int i = 0; i < arr3.length; i++) {
14             System.out.print(arr3[i]);
15             if (i < arr3.length - 1) {
16                 System.out.print(", ");
17             }
18         }
19         System.out.println(" }");
20     }
21     public static List<Integer> mergeArrays(int[] arr1, int[] arr2)
22     {
```

```
java -cp /tmp/4gkcZ0WLp0 MergeSortedArrays
arr3[] = { 1, 2, 3, 4, 4, 5, 6, 8 }
```

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```
17     }
18 }
19 System.out.println(" }");
20 }
21 public static List<Integer> mergeArrays(int[] arr1, int[] arr2)
22 {
23     List<Integer> mergedList = new ArrayList<>();
24     int i = 0, j = 0;
25     while (i < arr1.length && j < arr2.length) {
26         if (arr1[i] < arr2[j]) {
27             mergedList.add(arr1[i]);
28             i++;
29         } else {
30             mergedList.add(arr2[j]);
31             j++;
32         }
33     }
34     while (i < arr1.length) {
35         mergedList.add(arr1[i]);
36         i++;
37     }
38     while (j < arr2.length) {
```

```
java -cp /tmp/4gkcZ0WLp0 MergeSortedArrays
arr3[] = { 1, 2, 3, 4, 4, 5, 6, 8 }
```

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```
23 int i = 0, j = 0;
24 while (i < arr1.length && j < arr2.length) {
25     if (arr1[i] < arr2[j]) {
26         mergedList.add(arr1[i]);
27         i++;
28     } else {
29         mergedList.add(arr2[j]);
30         j++;
31     }
32 }
33 while (i < arr1.length) {
34     mergedList.add(arr1[i]);
35     i++;
36 }
37 while (j < arr2.length) {
38     mergedList.add(arr2[j]);
39     j++;
40 }
41 return mergedList;
42 }
43 }
44 }
```

```
java -cp /tmp/4gkcZ0WLp0 MergeSortedArrays
arr3[] = { 1, 2, 3, 4, 4, 5, 6, 8 }
```