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#include <stdio.h>
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// Function to merge two sorted arrays
void merge(int list1[], int size1, int list2[], int size2, int mergedList[]) {
  int i = 0, j = 0, k = 0;
  // Traverse both arrays and copy smaller element to mergedList
  while (i < size1 && j < size2) {
     if (list1[i] < list2[j]) {
        mergedList[k++] = list1[i++];
     } else {
        mergedList[k++] = list2[j++];
     }
  }
  // Copy remaining elements of list1, if any
  while (i < size1) {
     mergedList[k++] = list1[i++];
  }
  // Copy remaining elements of list2, if any
  while (j < size2) {
     mergedList[k++] = list2[j++];
  }
}
int main() {
  int list1[] = \{1, 3, 5, 7\};
  int size1 = sizeof(list1) / sizeof(list1[0]);
  int list2[] = \{2, 4, 6, 8\};
  int size2 = sizeof(list2) / sizeof(list2[0]);
  int mergedSize = size1 + size2;
  int mergedList[mergedSize];
  merge(list1, size1, list2, size2, mergedList);
  printf("Merged list: ");
  for (int i = 0; i < mergedSize; i++) {
     printf("%d ", mergedList[i]);
  printf("\n");
  return 0;
}
```