```c
#include <stdio.h>
#define SIZE 10
#define MERGED 20

// function protoype to merge listOne and listTwo
void mergeList(int *listOnePtr, size_t size1, int *listTwoPtr, size_t size2);

int main(void) {

     // declare listOne and listTwo
     int listOne[SIZE];
     int listTwo[SIZE];

     // declare pointers and initialize them to point to listOne and listTwo
     int *listOnePtr = &listOne[0];
     int *listTwoPtr = &listTwo[0];

     // initialize and print listOne
     puts("List one is:");

     for (size_t i = 0; i < SIZE; i++) {
          listOne[i] = i + 1;
          printf("%d ", listOne[i]);
     }

     // initialize and print listTwo
     puts("\n\nList two is:");

     for (size_t y = 0; y < SIZE; y++) {
          listTwo[y] = y + 11;
          printf("%d ", listTwo[y]);
     }

     // merge listOne and listTwo and print the merged list
     puts("\n\nThe merged list is:");

     mergeList(listOnePtr, SIZE, listTwoPtr, SIZE);

     puts("\n");

     system("pause");
}

// function to merge listOne and listTwo
void mergeList(int *listOnePtr, size_t size1, int *listTwoPtr, size_t size2) {

     int mergedList[MERGED];  // create mergedList

     int indexer; // indexer indexes through the lists
     indexer = 0;

     // put listOne into mergedList
     while (indexer < size1) {

          mergedList[indexer] = *listOnePtr;
          indexer++;
          listOnePtr++;
     }

     // put listTwo into mergedList
     while (indexer < MERGED) {

          mergedList[indexer] = *listTwoPtr;
          indexer++;
          listTwoPtr++;
     }

     // print the merged list
     for (int i = 0; i < MERGED; i++) {
          printf("%d ", mergedList[i]);
     }

}
```