```cpp
// Attached: HW 2B(2)
// File: HW_2B2.pdf
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// Program: Merge Arrays
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// Description:
// Program takes two arrays and merges them together
//
#include <iostream>

int main() {

  int arr1[5] = {};
  int arr2[5] = {};
  int arr3[10] = {};
  srand(time(0));

  for (int i = 0; i < 10; i++) {
     arr1[i] = rand() % 100 + 1;
  }

  for (int i = 0; i < 10; i++) {
     arr2[i] = rand() % 100 + 1;
  }

  for (int i = 0; i < 5; i++) {
     arr3[i * 2] = arr1[i];
     arr3[(i * 2) + 1] = arr2[i];
  }
  std::cout << "array 1: " << '\n';
  for (int i = 0; i < 5; i++) {
     std::cout << arr1[i] << ' ';
  }
  std::cout << '\n';
  std::cout << "array 2: " << '\n';
  for (int i = 0; i < 5; i++) {
     std::cout << arr2[i] << ' ';
  }
  std::cout << '\n';
  std::cout << "Merged Array: " << '\n';
  for (int i = 0; i < 10; i++) {
     std::cout << arr3[i] << ' ';
  }
  std::cout << '\n';
  return 0;
}
```