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

int main() {

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

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

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

    // merge arrays
    for (int i = 0; i < 5; i++) {
        arr3[i * 2] = arr1[i];
        arr3[(i * 2) + 1] = arr2[i];
    }

    // display all 3 arrays
    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] << ' ';
```

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    }
    std::cout << '\n';
    return 0;
}

// Output:
// List of elements:
// 42 27 46 72 76 65 91 8 95 67
// Smallest: 8
// Greatest: 95
```