



LAB-3

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Subject : COC2910

Output:

```
zaid Cpp College Assignments $ gcc Final_merge_assignment.c
zaid Cpp College Assignments $ ./a.out
Enter number of terms to be generated: 4
Random array generated of length 4 is : 72,8,55,87

----- MERGING USING SIMPLE MERGE -----

AFTER SIMPLE MERGING PAIRS:  8    72
AFTER SIMPLE MERGING PAIRS:  55   87
FINAL MERGED ARRAY IS :  8    55   72   87

----- MERGING USING  TABBING PROCESS  -----

[ [72 ], [8  ] ]
[ [55 ], [87 ] ]
[ [8 , 72 ], [55 , 87 ] ]
8 55 72 87
zaid Cpp College Assignments $ █
```

```
zaid Cpp College Assignments $ gcc Final_merge_assignment.c
```

```
zaid Cpp College Assignments $ ./a.out
```

```
Enter number of terms to be generated: 16
```

```
Random array generated of length 16 is : 53,7,34,6,84,14,99,44,21,80,69,79,78,84,16,67
```

```
----- MERGING USING SIMPLE MERGE -----
```

```
AFTER SIMPLE MERGING PAIRS: 7 53
```

```
AFTER SIMPLE MERGING PAIRS: 6 34
```

```
AFTER SIMPLE MERGING PAIRS: 14 84
```

```
AFTER SIMPLE MERGING PAIRS: 44 99
```

```
AFTER SIMPLE MERGING PAIRS: 21 80
```

```
AFTER SIMPLE MERGING PAIRS: 69 79
```

```
AFTER SIMPLE MERGING PAIRS: 78 84
```

```
AFTER SIMPLE MERGING PAIRS: 16 67
```

```
FINAL MERGED ARRAY IS : 6 7 34 53
```

```
FINAL MERGED ARRAY IS : 14 44 84 99
```

```
FINAL MERGED ARRAY IS : 21 69 79 80
```

```
FINAL MERGED ARRAY IS : 16 67 78 84
```

```
FINAL MERGED ARRAY IS : 6 7 14 34 44 53 84 99
```

```
FINAL MERGED ARRAY IS : 16 21 67 69 78 79 80 84
```

```
FINAL MERGED ARRAY IS : 6 7 14 16 21 34 44 53 67 69 78 79 80 84 84 99
```

```
----- MERGING USING TABBING PROCESS -----
```

```
[ [53 ], [7 ] ]
```

```
[ [34 ], [6 ] ]
```

```
[ [84 ], [14 ] ]
```

```
[ [99 ], [44 ] ]
```

```
[ [21 ], [80 ] ]
```

```
[ [69 ], [79 ] ]
```

```
[ [78 ], [84 ] ]
```

```
[ [16 ], [67 ] ]
```

```
[ [7 , 53 ], [6 , 34 ] ]
```

```
[ [14 , 84 ], [44 , 99 ] ]
```

```
[ [21 , 80 ], [69 , 79 ] ]
```

```
[ [78 , 84 ], [16 , 67 ] ]
```

```
[ [6 , 7 , 34 , 53 ], [14 , 44 , 84 , 99 ] ]
```

```
[ [21 , 69 , 79 , 80 ], [16 , 67 , 78 , 84 ] ]
```

```
[ [6 , 7 , 14 , 34 , 44 , 53 , 84 , 99 ], [16 , 21 , 67 , 69 , 78 , 79 , 80 , 84 ] ]
```

```
6 7 14 16 21 34 44 53 67 69 78 79 80 84 84 99
```

```
zaid Cpp College Assignments $ █
```

