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| **CSE :** Data Structure Lab (Sec-)  Department of Computer Science and Engineering  University of Liberal Arts Bangladesh | | | |
| **Course Title:** Algorithms Lab | | **Course Code:** CSE | |
| **Total Marks:** | | **Time:**  minutes | |
| **Name:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **ID:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1. Consider the following code:   #include <stdio.h>  #define size\_1 4  #define size\_2 3  int arr1[size\_1] = { 10, 40, 50, 70 };  int arr2[size\_2] = { 30, 80, 90 };  int final\_arr[size\_1 + size\_2];  void merge()  {  // write your solution here  }  int main()  {  merge();  int i;  for (i = 0; i < size\_1 + size\_2; i++) printf("%d ", final\_arr[i]);  printf("\n");  return 0;  }  Complete the function merge that merges the two sorted arrays arr1 & arr2 and stores the sorted values in the array final\_arr.   |  |  | | --- | --- | | **SAMPLE INPUT** | **SAMPLE OUTPUT** | |  |  | |  |
| 1. Interview |  |