



## C++ Assignments | Merge Sort | Week 12

1. Given an array of integers, sort it in descending order using merge sort algorithm.
2. Reverse Pairs (Leetcode Problem) : Given an integer array nums, return the number of reverse pairs in the array.

A reverse pair is a pair (i, j) where:

$0 \leq i < j < \text{nums.length}$  and

$\text{nums}[i] > 2 * \text{nums}[j]$ .

*Note:- Please try to invest time doing the assignments which are necessary to build a strong foundation. Do not directly Copy Paste using Google or ChatGPT. Please use your brain 😊.*

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