

CSE 221 Assignment 02 Explanation
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Task 1

For the first part used nested loops.
That's how gained $O(N^2)$.

For the second part, learned the
two pointers technique. That's
how it's possible to gain $O(N)$

Task 2

For the first part used merge sort
after adding the list as one and
two. As merge sort's Time complexity is
 $O(n \log n)$

For the second part used merge
technique only.

Task 3

Get introduced to greedy technique
and used merge sort.

Task 4

The common case was something
to think about. Time complexity is
 $O(n \log n + mn)$