3-Way Mergesort

1. *3-way mergesort*. Suppose instead of dividing in half at each step, you divide into thirds, sort each third, and combine using a 3-way merge. What is the order of growth of the overall running time of this algorithm?

**Input Format:**

* The first line of the input contains the number of **T** test cases.
* For each test case:
  + The elements are separated by comma and followed by a space (, ).
  + There will be a blank line for each test case.

**Output Format:**

* Sort the elements using 3-way merge sort with comma and space separated.

**Note:** Sort the objects based on Strings.

**Constraints:**

* 1 ≤ T ≤ 5. (Test Cases)

**Sample Input:**

**1**

**1, 10, 100, 1001, -1**

**Sample Output:**

**[-1, 1, 10, 100, 1001]**