

CS 245 lab 3 sort columns

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Goal:

The goal of this lab is to return a list of values of the columns in an array of strings that need to be deleted because they are not in sorted order. Return an empty list if all the columns are sorted. Return -1 if the strings in the array have different lengths.

Run time:

The first loop will go through the whole array of strings in the worst case so its run time is $O(n)$.

The second loop will go through the number of strings in the array minus one in the worst case so its runtime is $O(n-1)$.

The overall runtime $O(n)$

Space complexity:

String list of size $O(n)$

Arraylist of integers of size $O(m)$

The overall space complexity is $O(n+m)$