Coding Bootcamp

Assignment 4 Brief

Following assignment 3 you are required to do a comparative analysis where you need to implement three (3) sorting algorithms:

1. Quick Sort **[2 marks]**
2. Bubble Sort **[2 marks]**
3. Bucket Sort **[2 marks]**

on synthetic data[1] that you produced from assignment 3 for at least forty (40) T-Shirts with various Colors, Sizes and Fabrics **[4 marks]**.

Using each of the previous algorithms you are required to sort these forty (40) T-Shirts based on:

1. Size in ascending **[10 marks]**
2. Size in descending **[10 marks]**
3. Color in ascending **[10 marks]**
4. Color in descending **[10 marks]**
5. Fabric in ascending **[10 marks]**
6. Fabric in descending **[10 marks]**
7. Size, Color and Fabric in ascending **[15 marks]**
8. Size, Color and Fabric in descending **[15 marks]**

Hints: Quick Sort, Bubble Sort, Bucket Sort

You need to submit all the produced files in a zip file named by your_name_assignment_4_.zip

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[1] Synthetic Data, https://en.wikipedia.org/wiki/Synthetic_data