INFO 6205 Spring 2019 Section_5 Quiz_07 > feng.wenh@husky.neu.edu

Full Name:	Wenhao Feng
Email:	feng.wenh@husky.neu.edu
Test Name:	**INFO 6205 Spring 2019 Section_5 Quiz_07**
Taken On:	12 Mar 2019 15:34:05 EDT
Time Taken:	34 min 56 sec/ 35 min
Work Experience:	< 1 years
Invited by:	Robin
Invited on:	12 Mar 2019 15:25:05 EDT
Tags Score:	

91.7%

55/60

scored in **INFO 6205 Spring 2019 Section_5 Quiz_07** in 34 min 56 sec on 12 Mar 2019 15:34:05 EDT

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Sorting with Firstname & Lastname > **Multiple Choice**	1 min 19 sec	0/ 5	⊗
Q2	Sorting > **Multiple Choice**	44 sec	5/ 5	✓
Q3	Sorting > **Multiple Choice**	11 sec	5/ 5	✓
Q4	Sorting > **Coding**	32 min 38 sec	45/ 45	✓

QUESTION 1

☒ Wrong Answer

Score 0

Sorting with Firstname & Lastname › Multiple Choice

QUESTION DESCRIPTION

Suppose there is a class Person, containing the First Name and Last Name. If you want to implement a sort method to sort a list of Person according to their First Name and Last Name (First based on the first character of Last Name and then based on the first character of First Name), which sort method would be more suitable?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ● Quick Sort
- ✓ ○ Merge Sort
- ○ Shell Sort
- ○ Heap Sort

No Comments

QUESTION 2

✓ Correct Answer

Score 5

Sorting › Multiple Choice

QUESTION DESCRIPTION

The time complexity required to merge two sorted arrays of size m and n is

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ○ O(m)
- ○ O(n)
- ✓ ● O(m+n)
- ○ O(mn)

No Comments

QUESTION 3

✓ Correct Answer

Score 5

Sorting › Multiple Choice

QUESTION DESCRIPTION

Which sorting method runs faster for an array with all keys identical?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

○ Selection

✓ ● Insertion

○ Merge

○ Shell

No Comments

QUESTION 4

✓ Correct Answer

Score 45

Sorting › Coding

QUESTION DESCRIPTION

Sorting input strings according to following rules:

1. From A - Z in dictionary order ignoring case , such as Type -> epTy
2. Different cases of same character remains the original order, such as BabA -> aABb
3. Characters that are not English alphabet, remain the original place, such as By?e -> Be?y

CANDIDATE ANSWER

Language used: **Java 8**

```java
    static String process(String str){
        // Implement here
        LinkedList<String> list = new LinkedList<>();
        char[] a = str.toCharArray();
        for (int i = 0; i < a.length; i++){
            if((a[i]>='a'&&a[i]<='z')||(a[i]>='A'&&a[i]<='Z')){
                list.add(String.valueOf(a[i]));
            }
        }
        Collections.sort(list,String.CASE_INSENSITIVE_ORDER);
        StringBuilder sb = new StringBuilder();
        int j = 0;
        for (int i = 0; i < a.length; i++){
            if((a[i]>='a'&&a[i]<='z')||(a[i]>='A'&&a[i]<='Z')){
                sb.append(list.get(j));
                j++;
            }
            else{
                sb.append(a[i]);
            }
        }
        return sb.toString();

    }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	✓ Success	5	0.151 sec	26 MB
Testcase 1	Easy	Hidden case	✓ Success	5	0.151 sec	25.6 MB
Testcase 2	Easy	Hidden case	✓ Success	5	0.15 sec	25.7 MB
Testcase 3	Easy	Hidden case	✓ Success	5	0.148 sec	25.6 MB
Testcase 4	Medium	Hidden case	✓ Success	15	0.154 sec	25.6 MB
Bonus , this test case makes up your mistakes.	Medium	Hidden case	✓ Success	5	0.153 sec	25.9 MB
Bonus , this case makes up your mistakes.	Medium	Hidden case	✓ Success	5	0.154 sec	25.7 MB

No Comments

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