HackerRank For Work

Spring_2018_INFO6205_Se... 30 minutes

Question - 1
SCORE: **15 points**

Sorting Method Selection (1)

As a developer of your company, you are asked to implement sorting method for processing business data.
If the input data are already sorted in ***most cases***, which one would you choose?

- (•) Insertion Sort
- ( ) Selection Sort
- ( ) Merge Sort

Question - 2
SCORE: **15 points**

Sorting Method Selection (2)

As a developer of your company, you are asked to implement sorting method for processing business data.
If the input data are ***random***, which one would you choose?

- ( ) Insertion Sort
- ( ) Selection Sort
- (•) Merge Sort

Question - 3
SCORE: **15 points**

Sorting Method Selection (3)

One of the methods (Insertion / Selection / Merge) was not selected in the former 2 questions.. Please describe the reason.

Question - 4
SCORE: **15 points**

Merge Sort

Please briefly describe why the complexity of Merge Sort is O(n log n).

Question - 5
SCORE: **40 points**

Anagram

(An anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.)
Given two strings s and t, write a function to determine if t is an anagram of s.

For example,
s = "anagram", t = "nagaram", return true.
s = "rat", t = "car", return false.

Note:
You may assume the string contains only lowercase alphabets.
Hint:
1. There is O(n) solution for this question but your algorithm doesn't have to be O(n) as long as you can pass the test cases.
2. You may find toCharArray() and charAt() methods in String Class useful.
3. You may sort the characters in the given Strings to solve this problem.