



Full Name: Lintong Yang
Email: yang.lin@husky.neu.edu
Test Name: Spring_2018_INFO6205_Sec03_Quiz_5
Taken On: 6 Feb 2018 13:02:13 EST
Time Taken: 24 min 2 sec/ 30 min
Work Experience: < 1 years
Invited by: Robin
Invited on: 6 Feb 2018 12:41:59 EST
Tags Score:

100%
50/50

scored in
Spring_2018_INFO6205_Sec03_
in 24 min 2 sec on 6 Feb
2018 13:02:13 EST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Question1 > Multiple Choice	4 min 30 sec	5/ 5	✓
Q2	Question 2 > Multiple Choice	8 min 12 sec	5/ 5	✓
Q3	Question 3 > Multiple Choice	20 sec	5/ 5	✓
Q4	Question 4 > Multiple Choice	32 sec	5/ 5	✓
Q5	Question 5 > Project	10 min 18 sec	30/ 30	✓

QUESTION 1



Correct Answer

Score 5

Question1 > Multiple
Choice

QUESTION DESCRIPTION

Consider an employee database where people are added based on hire date and then sorted based on last name. If two people in the employee database have the same last name, which sorting method(s) will not change their order relative to each other? (*Hint: this concept is known as stability*)

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☐ Selection sort
- ☒ Insertion sort
- ☐ Shell sort
- ☐ All of the above

No Comments

QUESTION 2

Correct Answer

Score 5

Question 2 > Multiple Choice

QUESTION DESCRIPTION

How many inversions does the sequence E F J K Y T O R Z W contain?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ 5

☐ 6

☒ 7

☐ 8

No Comments

QUESTION 3

Correct Answer

Score 5

Question 3 > Multiple Choice

QUESTION DESCRIPTION

Given an array in reverse order [6, 5, 4, 3, 2, 1], what are the steps in selection sort?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☒ 1 5 4 3 2 6, 1 2 4 3 5 6, 1 2 3 4 5 6

☐ 3 5 4 6 2 1, 3 2 4 6 5 1, 3 2 1 6 5 4, 1 2 3 4 5 6

☐ 5 6 4 3 2 1, 4 5 6 3 2 1, 3 4 5 6 2 1, 2 3 4 5 6 1, 1 2 3 4 5 6

☐ 6 5 4 3 1 2, 6 5 4 1 2 3, 6 5 1 2 3 4, 6 1 2 3 4 5, 1 2 3 4 5 6

No Comments

QUESTION 4

Correct Answer

Score 5

Question 4 > Multiple Choice

QUESTION DESCRIPTION

Given an array in sorted order, which sort runs faster?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

☐ Selection sort

☒ Insertion sort

☐ Both

No Comments

QUESTION 5

Correct Answer

Score 30

Question 5 > Project

QUESTION DESCRIPTION

Your task is to implement a student ranking system using insertion sort. Your `sort()` method should sort students from highest to lowest GPA. You must also implement the `higher()` method used to compare the students' GPAs.

Both methods to be implemented are in the `StudentRank` class. There is also a `Student` class that you should not modify.

CANDIDATE ANSWER

Answer Zip: <http://hr.gs/9cb9ce0f2d67>

Please open the report on HackerRank for Work to view the candidate's submission

<https://www.hackerrank.com/x/tests/193894/candidates/5366592/report>

Codechecker message

```
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building StudentRank 0.0.1-SNAPSHOT
[INFO] -----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ StudentRank ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory Solution/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.2:compile (default-compile) @ StudentRank ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 2 source files to Solution/target/classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.958 s
[INFO] Finished at: 2018-02-06T18:26:25+00:00
[INFO] Final Memory: 14M/164M
[INFO] -----
```

No Comments