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Test Name: Spring_2018_INFO6205_Sec05_Quiz_3
Taken On: 23 Jan 2018 16:41:26 EST
Time Taken: 28 min 9 sec/ 30 min
Work Experience: < 1 years
Invited by: Robin
Invited on: 23 Jan 2018 16:28:05 EST
Tags Score:

100%
100/100

scored in
Spring_2018_INFO6205_Sec05_
in 28 min 9 sec on 23 Jan
2018 16:41:26 EST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Stack, Queue, Bag, ArrayList > Multiple Choice	13 sec	20/ 20	✓
Q2	Stack and Queue > Multiple Choice	1 min 24 sec	20/ 20	✓
Q3	Queue > Project	26 min 13 sec	60/ 60	✓

QUESTION 1



Correct Answer

Score 20

Stack, Queue, Bag, ArrayList > Multiple Choice

QUESTION DESCRIPTION

A data buffer is a region to temporarily store data while it is being moved from one place to another. Typically, the data is stored in a buffer as it is retrieved from an input device or just before it is sent to an output device. which of the following data structure is better in this situation?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ☐ Stack
- ✓ ☒ Queue
- ☐ Bag
- ☐ ArrayList

No Comments

QUESTION 2

Correct Answer

Score 20

**Stack and Queue > Multiple
Choice****QUESTION DESCRIPTION**

Suppose a,b,c,d,e,f is pushed to a stack in order. You can pop at any time (e.g. Push(a), pop (), push(b)). The result of pop will be stored in a queue(e.g. enqueue(pop())). Which of the following sequence is NOT the queue after the stack is empty(left is the first element of the queue)?

CANDIDATE ANSWER**Options:** (Expected answer indicated with a tick)

- ☐ f e d c b a
- ☐ b c a f e d
- ☐ d c e f b a
- ☒ c a b d e f

No Comments

QUESTION 3

Correct Answer

Score 60

Queue > Project

QUESTION DESCRIPTION

There is a deck of N cards on the desk and you are going to play a game: take out the card on the top and record it, then put the next card to the bottom of the deck. repeat this process until the deck is empty. The result is the record data.

Please implement a queue to simulate this process, the input will contain the maxsize of the queue and the order of the deck, the size of the deck is no larger than the maxsize of the queue. you should return an array which contains the record of this game.

Sample:

inut: 10, {1,2,3,4,5}

Process: {1,2,3,4,5} -> {3,4,5,2} -> {5,2,4} -> {4,2} -> {2} Queue

 {1} -> {1,3} -> {1,3,5} -> {1,3,5,4} -> {1,3,5,4,2} ResultArray

output: {1,3,5,4,2}

CANDIDATE ANSWER

Answer Zip: <http://hr.gs/38b391883d1b>

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

<https://www.hackerrank.com/x/tests/191043/candidates/5264956/report>

Codechecker message

```
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for
com.example:solution:jar:1.0-SNAPSHOT
[WARNING] 'build.plugins.plugin.version' for org.codehaus.mojo:exec-maven-plugin is
missing. @ line 47, column 15
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the
stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such
malformed projects.
[WARNING]
[INFO]
[INFO] -----
[INFO] Building solution 1.0-SNAPSHOT
[INFO] -----
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ solution ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory Solution/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.5.1:compile (default-compile) @ solution ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to Solution/target/classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.991 s
[INFO] Finished at: 2018-01-23T22:09:47+00:00
[INFO] Final Memory: 14M/157M
[INFO] -----
```

No Comments