From:	Ik Soo Lim
Sent:	08 February 2023 14:45
To:	Tristan P Read
Cc:	Razia Sulthana Abdul Kareem
Subject:	Re: Unofficial appeal, potential misgraded work
Attachments:	histogram_example.pdf

Hi Tristan,

For consistency, every marking (done by different markers) was checked and had to be revised if necessary, by me (the module leader) and the moderator; for this reason, quite a few of them had to be revised before the release. Only 2 students have contacted me so far to request raising their marks. You are the 2nd one; the 1st student did not get any raise. I have revisited your report and the mark. I am afraid that it is difficult to raise your mark. I have included my comments (ISL's comment) for each of your complaints below.

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· Main complaints:
· Section: Justification of the choice of data structures and algorithms.
· Marks: 3/10
· Feedback: "The justification of the author behind the user of data structure seems irrelevant."
· Additional Comment to make the above statement clear: The suitability of choosing the data structures 'adjacency dictionary' is missing. Building the entire application incurs use of many data structures which could have been listed and justified clearly. The student is expected to specify the data structure used for each of the tasks which he has developed. The student could have mentioned the algorithms used for implementing each of the tasks..
· ISL (Ik Soo Lim)'s comment: you have provided justification for one data structure, but little for others such as algorithms.
· Complaint: I do not see how the justification of my data structures is irrelevant. Within my write-up, one of the things I stated was "My nodes contain an adjacency dictionary who's keys are the neighboring node IDs and values are another dictionary of edge IDs and edges." This does not seem irrelevant to me because I am clearly stating that I am using a dictionary as one of the data types amongst other things in my write-up where I said "each as their own separate object" showing that I am taking an object-oriented based approach as opposed to something like storing each node and edge in a three dimensional array (aka matrix).
· Section: Discussion for the choice of test data you provide and a table detailing the tests performed.
· Marks: 6/10
· Feedback: "The test cases seem to be irrelevant. In the test result of Dijkstras algorithm the time taken shows to be 0.0ms. But the requirement was to provide a table detailing the test cases to compare the expected time and the one produced by the algorithm."
· Additional Comment to make the above statement clear: The student have tested to check whether the algorithm runs properly or the graph is connected properly. It is unclear which test case the student employs for each task. The question was to list the issues encountered while running/building the algorithm and ways used by the students to correct it. The student could have also made test cases in this way, he/she could have manually worked out a list of stations showing how the customer will travel from one starting station (x) to a destination station (y) as well as how long the journey will take in total. Then, he may compare these against the outputs from his code to test whether they coincide.' The word table

was mentioned to keep it easy to compare the expected and obtained time taken to travel between one station to other.

· ISL's comment: you have already received marks close to those of distinction (6/10) even if there is little on Tasks 2 and 3.

· Complaint: While what I have provided may not look like a table, I am showing the times taken for the algorithms, they show 0.0ms because they are just fast and efficient on these small datasets that I am using, these datasets came from the lecture slides because they answers are known and easy to figure out to a new reader.

· If the reader were to pay attention, further down we can see that there was indeed a non-zero time taken for the algorithms when used on a larger dataset.

· Section: Outcomes of Task 1, 2 and 3

· Marks: 11/20

· Feedback: "The histogram 1b is supposed to be drawn for each pair of stations. And histogram 2b is a comparative analysis on the time taken with and without closure of lines. But the author has drawn for one pair of station."

· ISL's comment: Perhaps, you may improve the understanding of the histogram concept, in general. One axis should represent numerical values (for this coursework, travel times rather than the station names) and the other axis should represent the frequency of each numerical value (for instance, if 32 min is the typical travel time in the London tube system, the histogram may show a graph peaked at 32 min or something similar). An example file of the histograms is attached for your reference. For task 2, a minimum-spanning tree algorithm such as the Kruskal algorithm is expected.

· Complaint: Histogram 1b as seen below does infact show the time taken between each station, I do not understand what the marker means by I have not done this task. Below for example you can see that the time taken between Paddington and Edgware Road is 2 minutes, and then the time between Edgware Road and Baker Street is 3 minutes, and so on.

· Histogram 2b shows the time taken between each station with the line closures taken into account. The marker has said that I had not made a graph for the open route and closed routes, but the coursework specification DOES NOT specify that we have to provide a histogram for both open routes AND closed routes as a comparison, it only mentions that we need to say what the original time taken would've been.

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Thanks for understanding.

Best regards,

Ik Soo

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Dr Ik Soo Lim
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London SE10 9LS

From: Tristan P Read <tr9529u@greenwich.ac.uk>
Sent: 03 February 2023 16:38
To: Tuan Vuong <T.Vuong@greenwich.ac.uk>
Cc: Ik Soo Lim <I.Lim@greenwich.ac.uk>; Razia Sulthana Abdul Kareem <razia.sulthana@greenwich.ac.uk>
Subject: RE: Unofficial appeal, potential misgraded work

Hi Tuan, I was told before I wrote this mail to you that you were the module leader, but I see now that was not right, I will cc this response over to the module leader too. My work was marked and graded by "Razia Sulthana Abdul Kareem".

From: Tuan Vuong <T.Vuong@greenwich.ac.uk>
Sent: 03 February 2023 09:57
To: Tristan P Read <tr9529u@greenwich.ac.uk>
Subject: RE: Unofficial appeal, potential misgraded work

Hi Tristan,

Thanks for your email. Do you recall/know who is marking your work?

Normally, you should be in discussion with the marker and the module leader as soon as possible about this. I don't think that I was the marker nor the module leader. However, I can meet up with you, probably on Teams to talk about this?

Regards,

Tuan

From: Tristan P Read <tr9529u@greenwich.ac.uk>
Sent: 02 February 2023 17:27
To: Tuan Vuong <T.Vuong@greenwich.ac.uk>
Subject: Unofficial appeal, potential misgraded work
Importance: High

Hi Sir,
I was told by another student that I should ask you about this possible appeal for the coursework of Term 1, 2022, Advanced Algorithms and Data Structures (COMP1828).
I would like your input on the matter if you wouldn't mind as I do also recall you taking interest in my work before. From what I've read online I don't think it's going to be likely that I can appeal anything but below are the things I disagree with.

My received grade for this coursework was 61/110 -> 56%.

Main complaints:
Section: Justification of the choice of data structures and algorithms.
Marks: 3/10
Feedback: "The justification of the author behind the user of data structure seems irrelevant."
Complaint: I do not see how the justification of my data structures is irrelevant. Within my write-up, one of the things I stated was "My nodes contain an adjacency dictionary who's keys are the neighboring node IDs and values are another dictionary of edge IDs and edges." This does not seem irrelevant to me because I am clearly stating that I am using a dictionary as one of the data types amongst other things in my write-up where I said "each as their own separate object" showing that I am taking an object-oriented based approach as opposed to something like storing each node and edge in a three dimensional array (aka matrix).

Section: Discussion for the choice of test data you provide and a table detailing the tests performed.
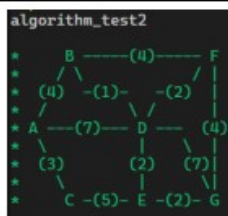Marks: 6/10
Feedback: "The test cases seem to be irrelevant. In the test result of Dijkstras algorithm the time taken shows to be 0.0ms. But the requirement was to provide a table detailing the test cases to compare the expected time and the one produced by the algorithm."
Complaint: While what I have provided may not look like a table, I am showing the times taken for the algorithms, they show 0.0ms because they are just fast and efficient on these small datasets that I am using, these datasets came from the lecture slides because they answers are known and easy to figure out to a new reader.

Graph 1   **Graph 2**

```
algorithm_test1        algorithm_test2
   B----|                B -----(4)----- F
  / \   |              / \        / |
(1)(2)(1)            (4) -(1)-   -(2) |
 /     \ |          /        \ /     |
A      D-|         A ---(7)--- D --- (4)
  \    /           \        |   \  |
 (4)(1)           (3)      (2)  (7)|
   \ /             \        |     \|
    C               C -(5)- E -(2)- G
```

Dijkstra's algorithm:

Graph 1

```
Expected result: A (1)> B (1)> D, Actual result: A (1)> B (1)> D, Test passed: True, Duration: 0.0ms
Expected result: B (1)> D (1)> C, Actual result: B (1)> D (1)> C, Test passed: True, Duration: 0.0ms
```

Graph 2

```
Expected result: A (4)> B (1)> D (2)> E (2)> G, Actual result: A (4)> B (1)> D (2)> E (2)> G, Test passed: True, Duration: 0.0ms
```

Bellman Ford algorithm:

Graph 1

```
Expected result: A (1)> B (1)> D, Actual result: A (1)> B (1)> D, Test passed: True, Duration: 0.0ms
Expected result: B (1)> D (1)> C, Actual result: B (1)> D (1)> C, Test passed: True, Duration: 0.0ms
```

If the reader were to pay attention, further down we can see that there was indeed a non-zero time taken for the algorithms when used on a larger dataset.

```
The algorithm is now 'Dijkstra'.
> go debug
Calculation took 87.66ms, using Dijkstra's algorithm.
The route from 'Paddington' to 'Woodford' has a duration
```

Graph 2

```
Expected result: A (4)> B (1)> D (2)> E (2)> G, Actual result: A (4)> B (1)> D (2)> E (2)> G, Test passed:
```

Section: Outcomes of Task 1, 2 and 3
Marks: 11/20
Feedback: "The histogram 1b is supposed to be drawn for each pair of stations. And histogram 2b is a comparative analysis on the time taken with and without closure of lines. But the author has drawn for one pair of station."
Complaint: Histogram 1b as seen below does infact show the time taken between each station, I do not understand what the marker means by I have not done this task. Below for example you can see that the time taken between Paddington and Edgware Road is 2 minutes, and then the time between Edgware Road and Baker Street is 3 minutes, and so on.

Task 1b:

Task 1b asked us to show a histogram of the time between each station in the path.
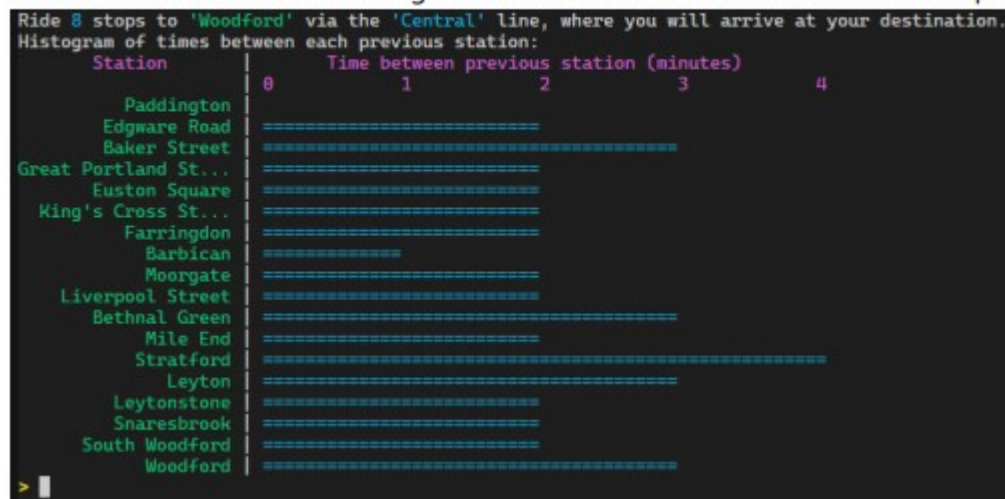
Histogram 2b shows the time taken between each station with the line closures taken into account. The marker has said that I had not made a graph for the open route and closed routes, but the coursework specification DOES NOT specify that we have to provide a histogram for both open routes AND closed routes as a comparison, it only mentions that we need to say what the original time taken would've been.
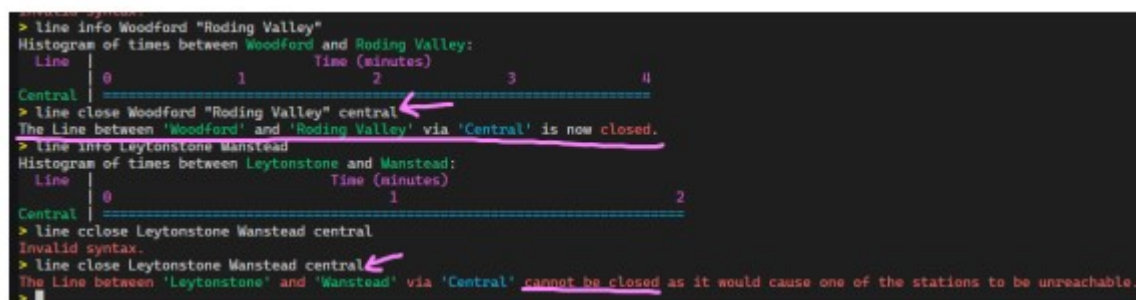
---END MAIN COMPLAINTS---

In hindsight yes, I did not provide the Big-O notation for the performance of the algorithm, while I know what the Big-O notation was, I understand that I did not provide it in the write-up.

Hopefully you agree with me on at least some of this that I was not graded fully to what I could've had with the work I have provided. I would love to hear your feedback on this and hopefully, if you believe it is worth a better grading, I would like to hear if you have any recommendations on what to do next going forward with this potential appeal.

Thank you,
From Tristan.