PEER REVIEW REPORT: ERIK BRECHTER

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SECTION 1: CORE ASSIGNMENT

Q1: Does the application run? --> yes

Q2: Does the application display the complete map of tram lines? --> yes

Q3: Is it possible to query shortest path between any two points? --> yes

SECTION 2: OPTIONAL TASKS

B1: Is the submission successfully accounting for Bonus Part 1? --> no

B2: Is the submission successfully accounting for Bonus Part 2? --> yes

SECTION 3: CODE QUALITY

Dijkstra has been implemented as intended with the Priority Queue version. Different distances are obtained by changing the cost function and the function is only defined once.

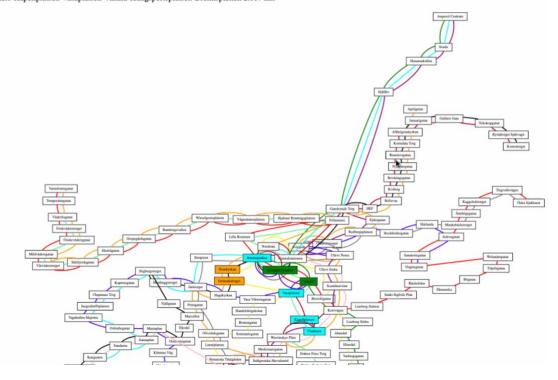
Lab2 code has simply been copied over and changed where necessary. The code is efficient.

SECTION 4: SCREENSHOTS INSERT TWO SCREENSHOTS:

SCREENSHOT 1 Correctly displays the shortest path and quickest path from Chalmers to Brunnsparken.

Chalmers-Brunnsparken

Quickest: Chalmers-Kapellplatsen-Vasaplatsen-Grönsakstorget-Domkyrkan-Brunnsparken 7 minutes Shortest: Chalmers-Kapellplatsen-Vasaplatsen-Valand-Kungsportsplatsen-Brunnsparken 2.117 km



SCREENSHOT 2 Screenshot of show_shortest() function.

```
def show_shortest(dep, dest):
network = readTramNetwork()
quickest = dijkstra(network, dep, cost=lambda u, v: network.get_weight(u, v))[dest]
shortest = dijkstra(network, dep, cost=lambda u, v: network.geo_distance(u, v))[dest]
distance = 0
for i in range(len(shortest) - 1):
    distance += network.geo_distance(shortest[i], shortest[i + 1])
time = 0
for i in range(len(quickest) - 1):
    time += network.get_weight(quickest[i], quickest[i + 1])
timepath = 'Quickest: ' + "-".join(quickest) + " " + str(time) + " minutes"
geopath = 'Shortest: ' + "-".join(shortest) + " " + str(distance) + " km"
def colors(v):
   if v in shortest and v in quickest:
    elif v in shortest:
    elif v in quickest:
color_svg_network(colormap=colors)
return timepath, geopath
```