

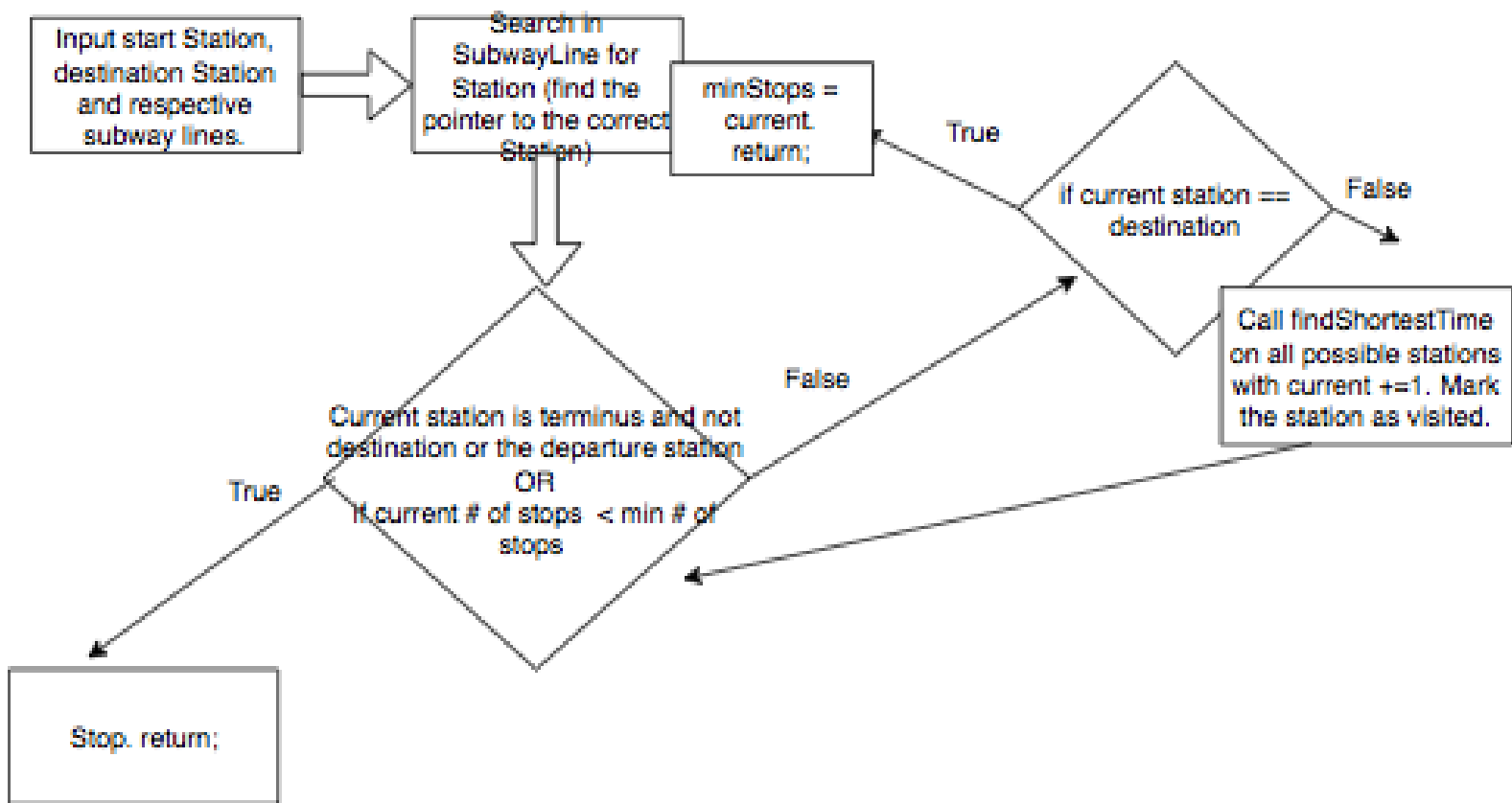
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APCS2 pd08

HW56 -- Orienting Your Up Goer

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Flow:

The user is asked to input a start station. User enters first the subway line that they wish to begin at (a list of options is displayed), and then a numbered list of the subway stations on this line will appear. They enter the number, and this will correspond to their start station.

The same will happen to determine the destination station.

Then, a depth first algorithm will run:

Depth First Algorithm Flow Chart:

- If current station is terminus and not the destination or the departure station, stop.
- If current#of stops < min# of stops, stop.
- If current station is destination, current# of stops = min # of stops. Stop.

- Call this method on all possible transfers with stations (use search method to find station in other SubwayLines) with current# of stops +=1.
- Also, recursive: solving from the next possible spot, unless that spot is a disqualifier such as it has already been visited.

Return to the user the trains that were taken and which transfers were made where, if any.
Additionally, return a time estimate for the travel time.