**CMSC 21**

**Lectures 6-7 Assignment**

1. a. Revise line 16 such that you use a designated initializer to set pathways 0 and 2 to true, and the rest will be false. Make the initializer as short as possible.

Text

Description automatically generated

1. b. Revise line 16 such that the initializer will be short as possible (without using a designated initializer)

Text

Description automatically generated

Item #2 Discussion

At first, I thought it was complicated. My solution was to use the user input as the coordinate for x (row) and use a for loop to run through each column and find a true value. Then, the index of the y coordinate (column) will be transferred to the x coordinate. Then it will run through each column until it finds another true value and the process repeats until it finds the correct coordinate for [C] or [D]. I was lost for hours because my code was acting weird until I found the error from my array initialization where I inputted a wrong value. I used goto statement in the input validation (which I know is a bad practice T\_T) for I can’t make the while loop validation work. My code can be optimized more as it contain a bunch of lines and several if-else statements but my only target for the time being was to make it work.