

CMSC 21  
Lectures 6-7 Assignment

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.

```
15      */
16      bool pathway[8] = {[0] = 1, [2] = 1};
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell  
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PS C:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21> cd "c:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21\Lecture6-7\Assignments\" ; if (\$?) { gcc as1.c -o as1 } ; if (\$?) { .\as1 }

pathway[0] is open  
pathway[1] is close  
pathway[2] is open  
pathway[3] is close  
pathway[4] is close  
pathway[5] is close  
pathway[6] is close  
pathway[7] is close  
PS C:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21\CMSC 21\Lecture6-7\Assignments>

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

```
14
15      */
16      bool pathway[8] = {1, 0, 1};
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS C:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21> cd "c:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21\Lecture6-7\Assignments\" ; if (\$?) { gcc as1.c -o as1 } ; if (\$?) { .\as1 }

pathway[0] is open  
pathway[1] is close  
pathway[2] is open  
pathway[3] is close  
pathway[4] is close  
pathway[5] is close  
pathway[6] is close  
pathway[7] is close  
PS C:\Users\USER\Documents\School Files\2021\Second Sem\CMSC 21\CMSC 21\Lecture6-7\Assignments>

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## 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.