

CMSC 21 – Lectures 6 – 7 Assignment

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Writing the code for item 2 was a struggle for me. Not only that, but I admittedly had not enough time to read the slides and view the recordings for Lecture 6-7 as I had a hard time as well juggling my academics with my other commitments and duties as members of various youth-led and humanitarian organizations, especially during the heat of the 2022 election season. Anyhow, I have managed to still comply with the assignment, and thankfully the code had worked just as I had hoped, albeit not perfect.

As per item 2, in which the task is to declare and initialize a road network, I defined the size of the 2d array by using a macro. Subsequently, I had to utilize for loops in order to display the 2d array after declaring and initializing it. The printf function was then used for point location. I do have to acknowledge though, that some elements of the program's output are not executed, such as the markers A – H on the leftmost side of the expected output being nowhere to be found.

Here is the expected output:

```

    A      B      [C]    [D]    E      F      G      H
A      1      1      0      0      0      1      0      0
B      1      1      1      0      0      0      0      0
[C]    0      1      1      0      1      1      0      0
[D]    0      0      0      1      1      0      0      0
E      0      0      0      1      1      0      0      0
F      1      0      1      0      0      1      0      0
G      1      0      0      1      0      0      1      0
H      0      0      0      0      0      1      0      1
Which point are you located? 0 - A, 1 - B, 2 - C, 3 - D, 4 - E, 5 - F, 6 - G, 7 - H
5
At point: F
Now at point A
Now at point B
Now at point C
point: C arrived to charging station
```

Here is the output of my code:

```

"C:\Users\Client\Desktop\Lec Ass\Lecture 6-7\Assignments\lec6-7_2.exe"
A      B      [C]    [D]    E      F      G      H
1      1      0      0      0      1      0      0
1      1      1      0      0      0      0      0
0      1      1      0      1      1      0      0
0      0      0      1      1      0      0      0
0      0      0      1      1      0      0      0
1      0      1      0      0      1      0      0
1      0      0      1      0      0      1      0
0      0      0      0      0      1      0      1
Which point are you located? 0 - A, 1 - B, 2 - C, 3 - D, 4 - E, 5 - F, 6 - G, 7 - H
5
At point: F
Now at point A
Now at point B
Now at point C
point: C arrived to charging station
Process returned 0 (0x0)   execution time : 0.344 s
Press any key to continue.
```