1a.

```
#include <stdio.h>
#include <stdbool.h>
#include <stdbool.h

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#include <stdbool.h

#include <stdbool.h

#include <stdbool.h

#include <std>#include <stdbool.h

#include <std>#include <std>#include <sddbool.h

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#include <std>#include <sddbool.h

#include <sddool.h

#include
```

1b.

```
#include <stdbool.h>
finclude <stdbool.h>
finclude <stdbool.h>

fdefine NUM_PATHWAYS ((int) (sizeof(pathway)) / sizeof(pathway[0]))

int main(){

/*

A boolean array that contains true/false values referring to
whether a certain pathway is open/close for transportation.

Only pathways 0 and 3 are open for transportation. The rest are close.

//
bool pathway[8] = {1,0,1};

for (int i = 0; i < NUM_PATHWAYS; i++){

/*

Display the status of each pathway.

Remember that pathway is type bool so its elements are either true/false - 1/0.

*/

if (pathway[i]){
    printf("pathway[*d] is open \n", i);
} else{
    printf("pathway[*d] is close \n",i);
}

return 0;

return 0;

return 0;</pre>
```

```
int main(){
        int station, i = 0, road_network[8][8] = {
        char *points[NUM_STRINGS] = {"A", "B", "C", "D", "E", "F", "G", "H"};
        printf ("\t A\t B\t [C]\t [D]\t E\t F\t G\t H\n");
for (int row = 0; row < NUM_STRINGS; row++)(
    if (points[row] == "C" || points[row] == "D")</pre>
printf("[%s]",points[row]);
              //prints numbers in matrix
for (int col = 0; col < NUM_STRINGS; col++) {
    printf("%8d", road_network[row][col]);</pre>
printf("\n");
        printf("Which point are you located? 0 - A, 1 - B, 2 - C, 3 - D, 4 - E, 5 - F, 6 - G, 7 - H\n");
scanf ("%d", & station);
        if (station < 0 || station > 7) {
    printf("Invalid. Try again.");
H
        else if (road network[station][2]){
   printf("At point: %s\n",points[station]);
   printf("You arrived at charging station %s
                                                                        %s", points[2]);
        }else if (road_network[station][3]) {
    printf("le roise")
              printf("At point: %s\n",points[station]);
printf("You arrived at charging station %s", points[3]);
printf("At point: %s\n",points[station]);
              // Error fix: So the program wont print or stay in location A twice. if (station == 0)(
Ħ
for (i; i < NUM_STRINGS; i++) {
                    if (road_network[station][i])
if (i == 2 || i == 3) {
    printf("You arrived at charging station %s", points[i]);
 Ė
                      //goes back to 0 if it reaches the end and no path/point is found else if (i == 7) { i = 0;
```

Takeaway: Most of the time I compare C with python since python was the first language I learned. When learning or writing code in C it felt like I had to search more about different things because it seems that you have to include more directives in order to do what you want to do and that C is lengthier. Unlike in python where it feels like plug and play. But I'm not complaining since it is part of the learning process and that you learn more from reading code rather than writing it.