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B.S. in Computer Science I

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```
#include <stdio.h>

v int main(void){
    int i;
    i = 1;
    while (i <= 128) {
        printf("%d ", i);
        i *= 2;
    }
    return 0;
}</pre>
```

```
#include <stdio.h>
/ int main(void){
     int i;
     i = 10;
     while (i < 10) {
         printf("%d ", i);
         i++;
     printf("\n");
     i = 10;
     for(;i < 10;){
         printf("%d ", i);
         i++;
     printf("\n");
     i = 10;
     do {
         printf("%d ", i);
         i++;
     } while(i < 10);
```

the loop body of the first two statements will not be executed if the value of i is not satisfied, only the do - while.

```
1 #include <stdio.h>
2 int main(void){
3     int i;
4     for(i = 1; i <= 128; i *= 2){
5         printf("%d ", i);
6     }
7</pre>
```

```
#include <stdio.h>
    int main(void){
         long long int n, power2, c;
         power2 = 1;
         // loop n times to calcualte the power of 2
         for (c = 0; c < n; c++){}
              power2 *= 2;
         printf("%d = %1ld", n, power2);  //print the result
4.
    1 + #include <stdio.h>
        #define MAX_DAY 7
        int main(void){
           int numDays, startDay, days, count;
             printf("Enter number of days in month: ");
              scanf("%d", &numDays);
             printf("Enter the starting day of the week (1 = Sun, 7 = Sat):");
              scanf("%d", &startDay);
           }while(numDays < 28 || numDays > 31 || startDay < 1 || startDay > 7);
           for (count = 1; count < startDay; count++){</pre>
              printf(" ");  // print spaces before beginning of day
           for (days = 1; days <= numDays; days++, count++){
              if (days < 10){
                 printf(" %d ", days); // print spaces to align single-digit days to double-digit days
              }else{
                 printf("%d ", days);} // prit double-digit days
              if (count % MAX_DAY == 0){
                 printf("\n");
5.
6. a. bool pathway[8] = {[0] = true, [2] = true};
   b. bool pathway[8] = {true, false, true};
```

```
#include <stdio.h>
           #define ROW 9
            #define COLUMN 9
           #define CHARGING_STATION_INDEX_C 2
#define CHARGING_STATION_INDEX_D 3
                   int location_input, current_point;
char labels[RON] = {'A', '8', 'C', '0', 'E', 'F', 'G', 'H', 'I'}; // for columns and labels
                   \label{eq:cond_networks} \begin{tabular}{ll} \begin{tabular}{ll}
                   int row, column;
printf(" A B [C] [D] E F G H I\n");
for (row = 0; row < ROW; row++){</pre>
                             if (row == 2 || row == 3){
    printf("[%c]", labels[row]);  // display the labels
}else(
                                   printf("%c ", labels[row]);
                            }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("Xd", \&location_input); // read user input for location
                    printf("point: C arrived to charging station"); break;
                                                continue:
```

7.