```
// GROUP B
2
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3
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4
5
     #include "header.h"
6
7
8
     int GetTomorrowDate(char *tomorrowsDate)
9
10
       FILE *fp;
11
12
13
       // variables to store the date and time components
       int hours, minutes, seconds, day, month, year;
14
15
16
       // `time_t` is an arithmetic time type
       time_t now = (int)time(NULL) + 86400;
17
18
19
       // localtime converts a `time_t` value to calendar time and
       // returns a pointer to a `tm` structure with its members
20
21
       // filled with the corresponding values
22
       struct tm *local = localtime(&now);
23
24
                                     // get hours since midnight (0-23)
       hours = local->tm_hour;
25
       minutes = local->tm_min;
                                     // get minutes passed after the hour (0-59)
                                      // get seconds passed after a minute (0-59)
26
       seconds = local->tm_sec;
27
28
       day = local->tm_mday;
                                      // get day of month (1 to 31)
29
                                        // get month of year (0 to 11)
       month = local->tm_mon + 1;
30
       year = local->tm_year + 1900; // get year since 1900
31
32
       fp = fopen("dates.txt", "w+");
33
34
       // print the current date
       fprintf(fp, "%02d/%02d/%d", month, day, year);
35
36
       fclose(fp);
37
38
       fp = fopen("dates.txt", "r");
39
40
       fgets(tomorrowsDate, 11, fp);
41
       // printf("%s", tomorrowsDate);
42
       fclose(fp);
43
44
45
       return 0;
46
    }
47
48
     int GetTodayDate(char *todaysDate)
49
     {
50
       FILE *fp;
51
       // variables to store the date and time components
52
53
       int hours, minutes, seconds, day, month, year;
54
55
       // `time_t` is an arithmetic time type
56
       time_t now = (int)time(NULL);
57
58
       // localtime converts a `time_t` value to calendar time and
59
       // returns a pointer to a `tm` structure with its members
60
       // filled with the corresponding values
61
       struct tm *local = localtime(&now);
62
63
                                     // get day of month (1 to 31)
64
       day = local->tm_mday;
       month = local->tm mon + 1; // get month of year (0 to 11)
65
       year = local->tm_year + 1900; // get year since 1900
66
67
```

```
68
        // print the current date
69
        fp = fopen("dates.txt", "w+");
70
        // print the current date
71
72
        fprintf(fp, "%02d/%02d/%d", month, day, year);
73
        fclose(fp);
74
75
        fp = fopen("dates.txt", "r");
76
77
        fgets(todaysDate, 11, fp);
78
        // printf("%s", todaysDate);
79
        fclose(fp);
80
81
        return 0;
     }
82
83
84
      int seatChecker(int trainNum)
85
      {
86
        FILE *fp;
87
        char c;
88
        int zeros = 0;
89
90
91
        printf( "Opening the file train in read mode \n" );
        if (trainNum == 1)
92
93
        {
94
          fp = fopen ( "train1.txt", "r" ); // opening an existing file
95
96
        else if (trainNum == 2)
97
          fp = fopen ( "train2.txt", "r" ); // opening an existing file
98
99
100
        if ( fp == NULL )
101
102
         printf ( "Could not open file train \n" );
103
         return 1;
104
        printf( "Reading the file train n" );
105
106
        while (1)
107
         c = fgetc (fp); // reading the file
108
109
110
         if(c == '0')
111
         {
112
           zeros++;
113
           printf("%d\n", zeros);
114
115
116
         if(c == EOF)
117
         break;
         //printf ( "%c", c );
118
119
120
        printf("Closing the file train \n");
121
        fclose (fp); // Closing the file
122
        return zeros;
123 }
```