Problem Set 4 Exercise #15: Birthdays

Reference: Lecture 11 notes

Learning objective: An array of structures

Estimated completion time: 20 minutes

Problem statement:

Given a group consisting of n members, we are to determine if there are at least two members with the same birthday. Each member's birthday is represented as two values, the *month* and the *day*.

Write a program **birthday.c** that reads a list of birthdays as input, and reports if there are at least two occurrences of the same birthday.

You may assume that the group size is between 2 to 25.

Your program should contain at least two functions: **`read_birthdays()`** to read all birthdays into an array, and **`share_birthday()`** to check if any two birthdays in the given array are the same.

Sample run #1:

```
How many birthdays to input? 10
Enter 10 birthdays, day followed by month each:
28 11
6 8
13 5
19 3
1 10
21 10
14 11
3 11
6 4
3 11
Group of 10 having same birthday: Yes
```

Sample run #2:

```
How many birthdays to input? 5
Enter 5 birthdays, day followed by month each:
25 7
5 1
19 10
14 3
27 12
Group of 5 having same birthday: No
```