

## Problem Set 4 Exercise #13: The Younger One

**Reference:** Lecture 11 notes

**Learning objective:** Nested structures

**Estimated completion time:** 30 minutes

### Problem statement:

Write a program **younger.c** to:

- Create a **date\_t** structure type that contains 3 integer members representing *day*, *month* and *year*.
- Create a **person\_t** structure type that contains 2 members: *name* and *birthday*. Name is a single word of up to 10 characters; birthday is of type **date\_t**.
- Declare two structure variables *person1* and *person2* of **person\_t** type, read in their particulars, and print out the name of the younger person.

Your program should contain at least two functions: **scan\_person()** to read and return information of a person, and **is\_younger()** to compare the ages of two persons.

### Sample run #1:

```
Particular of 1st person: Adam 31 3 1990
Particular of 2nd person: Alice 30 3 1990
Adam is younger
```

### Sample run #2:

```
Particular of 1st person: Tom 1 7 1992
Particular of 2nd person: Jack 1 7 1992
Tom and Jack are of the same age
```

### Sample run #3:

```
Particular of 1st person: Dick 1 7 1995
Particular of 2nd person: Harry 1 7 1996
Harry is younger
```