When passed an array a of length n. the function will search a for its largest and second-largest elements, storing them in the variables pointed to by largest and second_largest, respectively.

7. Write the following function:

day_of_year is an integer between 1 and 366, specifying a particular day within the year designated by year. month and day point to variables in which the function will store the equivalent month (1-12) and day within that month (1-31).

Section 11.5

8. Write the following function:

```
int *find_largest(int a[], int n);
```

When passed an array a of length n. the function will return a pointer to the array's largest element.

Programming Projects

1. Modify Programming Project 7 from Chapter 2 so that it includes the following function:

The function determines the smallest number of \$20, \$10, \$5, and \$1 bills necessary to pay the amount represented by the dollars parameter. The twenties parameter points to a variable in which the function will store the number of \$20 bills required. The tens, fives, and ones parameters are similar.

2. Modify Programming Project 8 from Chapter 5 so that it includes the following function:

This function will find the flight whose departure time is closest to desired_time (expressed in minutes since midnight). It will store the departure and arrival times of this flight (also expressed in minutes since midnight) in the variables pointed to by departure_time and arrival_time, respectively.

3. Modify Programming Project 3 from Chapter 6 so that it includes the following function:

numerator and denominator are the numerator and denominator of a fraction. reduced_numerator and reduced_denominator are pointers to variables in which the function will store the numerator and denominator of the fraction once it has been reduced to lowest terms.

4. Modify the poker.c program of Section 10.5 by moving all external variables into main and modifying functions so that they communicate by passing arguments. The analyze_hand function needs to change the straight, flush, four, three, and pairs variables, so it will have to be passed pointers to those variables.