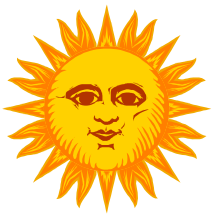
LAB

DAYSAPART



Assignment:

1. After you have completed and thoroughly tested the date class, write a different client program to solve another date-related problem. This program will use the date abstraction to solve a *daysApart* function. The specifications and function prototype of this function are given below.

   int *daysApart* (*Date day1*, *Date day2*);
   // if *day1* equals *day2*, then the function returns 0,
   // otherwise the function returns the number of
   // days which separates the two dates. For example:
   // 6/27/96 and 6/28/96 are 1 day apart
   // 11/2/60 and 10/27/60 are 6 days apart
   // 2/27/96 and 3/10/96 are 12 days apart (leap year issue)

2. Run your program on these test inputs:

   6/27/96 and 6/27/96
   6/27/96 and 6/28/96
   6/28/96 and 6/27/96
   1/1/95 and 1/1/96
   1/1/96 and 1/1/95

   2/25/96 and 3/10/96
   3/10/96 and 2/25/96
   12/25/96 and 1/6/97
   1/6/97 and 12/25/96

3. Turn in only the code for the client program which includes the *daysApart* function. Include the run output for the above test values. Your run output should be formatted something like this:

   6/27/96 and 6/27/96 are 0 days apart
   6/27/96 and 6/28/96 are 1 days apart (printing 1 day is optional)
   1/1/95 and 1/1/96 are 365 days apart
   etc.