```
datetime.c
/* Displays the current date and time in three formats */
#include <stdio.h>
#include <time.h>
int main(void)
   time t current = time(NULL);
  struct tm *ptr;
  char date_time[21];
   int hour;
  char am_or_pm;
  /* Print date and time in default format */
  puts(ctime(&current));
  /* Print date and time, using strftime to format */
  strftime(date_time, sizeof(date_time),
            "%m-%d-%Y %I:%M%p\n", localtime(&current));
  puts(date_time);
  /* Print date and time, using printf to format */
  ptr = localtime(&current);
  hour = ptr->tm_hour;
  if (hour <= 11)
    am_or_pm = 'a';
  else {
    hour -= 12;
    am or pm = 'p';
  if (hour == 0)
    hour = 12;
  printf("%.2d-%.2d-%d %2d:%.2d%c\n", ptr->tm_mon + 1,
         ptr->tm_mday, ptr->tm_year + 1900, hour,
          ptr->tm_min, am_or_pm);
  return 0;
    The output of datetime.c will have the following appearance:
Sun Jun 3 17:48:34 2007
06-03-2007
             05:48PM
06-03-2007
              5:48p
```

## **Q & A**

Q: Although <stdlib.h> provides a number of functions that convert strings to numbers, there don't appear to be any functions that convert numbers to strings. What gives?