Illustration L.2 -- Better Program Layout

```
program PRINTDATE (INPUT, OUTPUT);

{  -- This program reads in a date given in the form
   --    MMDDYY
   -- and prints it in the form
   --    MONTH DAY YEAR
   -- For example,
   --    022243
   -- is printed as
   --    February 22, 1943
   --
   -- No input checking is performed, i.e., the user must
   -- enter a valid date. }

   const
      BLANK  = ' ';
      NUMMONTHS = 12;
      MAXNAMELENGTH = 9;

   type
      NAME      = packed array [1..MAXNAMELENGTH] of CHAR;
      NAMETABLE = array [1..NUMMONTHS] of MONTHNAME;

   var
      M1, M2,
      D1, D2,
      Y1, Y2: CHAR;

      MONTHNUM,
      CHARCOUNT:  INTEGER;
      BLANKFOUND: BOOLEAN;
      NEXTCHAR:   CHAR;
      PRINTNAME:  NAME;
      MONTHS:     NAMETABLE;

begin
   SETMONTHNAMES (MONTHS);
   WRITELN ('Enter a date in the form MMDDYY:');
   READLN (M1, M2, D1, D2, Y1, Y2);

   if M1 = '0' then
      begin
         if M2 = '1' then MONTHNUM := 1;
         if M2 = '2' then MONTHNUM := 2;
         if M2 = '3' then MONTHNUM := 3;
         if M2 = '4' then MONTHNUM := 4;
         if M2 = '5' then MONTHNUM := 5;
         if M2 = '6' then MONTHNUM := 6;
         if M2 = '7' then MONTHNUM := 7;
         if M2 = '8' then MONTHNUM := 8;
         if M2 = '9' then MONTHNUM := 9
      end
   else
      begin { -- M1 = '1' }
         if M2 = '0' then MONTHNUM := 10;
         if M2 = '1' then MONTHNUM := 11;
         if M2 = '2' then MONTHNUM := 12
      end;
   PRINTNAME := MONTHS[MONTHNUM];

   CHARCOUNT := 0;
   BLANKFOUND := FALSE;
   while (not BLANKFOUND) and (CHARCOUNT < MAXNAMELENGTH) do begin
      CHARCOUNT := CHARCOUNT + 1;
      NEXTCHAR := PRINTNAME[CHARCOUNT];
      if NEXTCHAR := BLANK then
         BLANKFOUND := TRUE
      else
         WRITE (NEXTCHAR);
   end;

   WRITELN (' ', D1, D1, ', ', '19', Y1, Y2)
end.
```