Illustration 4.1 -- Mediocre Program Layout

```pascal
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;

procedure SETMONTHNAMES(var MONTHS:NAMETABLE);
   {Set up table of month names.}
      begin
         MONTHS[1]  := 'January  ';
         MONTHS[2]  := 'February ';
         MONTHS[3]  := 'March    ';
         MONTHS[4]  := 'April    ';
         MONTHS[5]  := 'May      ';
         MONTHS[6]  := 'June     ';
         MONTHS[7]  := 'July     ';
         MONTHS[8]  := 'August   ';
         MONTHS[9]  := 'September';
         MONTHS[10] := 'October  ';
         MONTHS[11] := 'November ';
         MONTHS[12] := 'December '
      end;

   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.
```