CALENDAR IN C (USER INPUT)

Code:

ANY YEAR CALENDAR

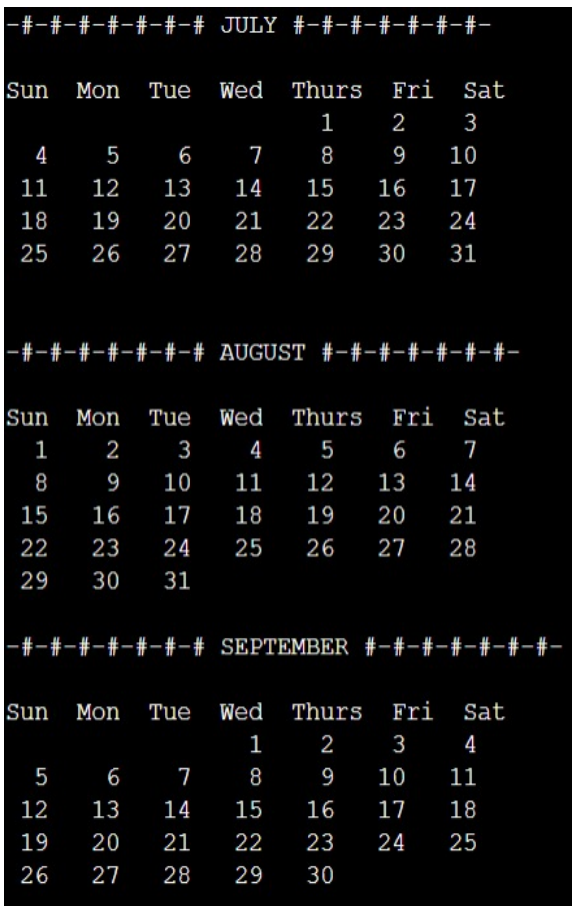
```
#include <stdio.h>
#include <stdlib.h>

int get1stweekday (int year)
{
  int d;
  d=(((year-1)*365)+((year-1)/4)-((year-1)/100)+((year)/400)+1)%7;
  return d;
}
int
main ()
{
  int year, month, day, daysInMonth, weekDay = 0, startingDay;
  printf ("\nEnter your desired year:");
  scanf ("%d", &year);

  char *months[] ={ "JANUARY", "FEBRUARY", "MARCH", "APRIL", "MAY", "JUNE", "JULY",
"AUGUST", "SEPTEMBER", "OCTOBER", "NOVEMBER", "DECEMBER" };
  int monthDay[] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

  if ((year%4==0&&year%100!=0)||year%400==0)
    monthDay[1] = 29;

  startingDay=get1stweekday(year);

  for (month=0;month<12;month++)
    {

      daysInMonth=monthDay[month];
```

```
printf ("\n\n  -#-#-#-#-#-#-# %s #-#-#-#-#-#-#-\n", months[month]);
printf ("\n  Sun  Mon  Tue  Wed  Thurs  Fri  Sat\n");
for (weekDay=0;weekDay<startingDay;weekDay++)
     printf ("     ");
for (day=1;day<=daysInMonth;day++)
     {
       printf ("%5d",day);
       if (++weekDay>6)
        {
          printf ("\n");
          weekDay = 0;
        }
       startingDay=weekDay;
     } } }
```

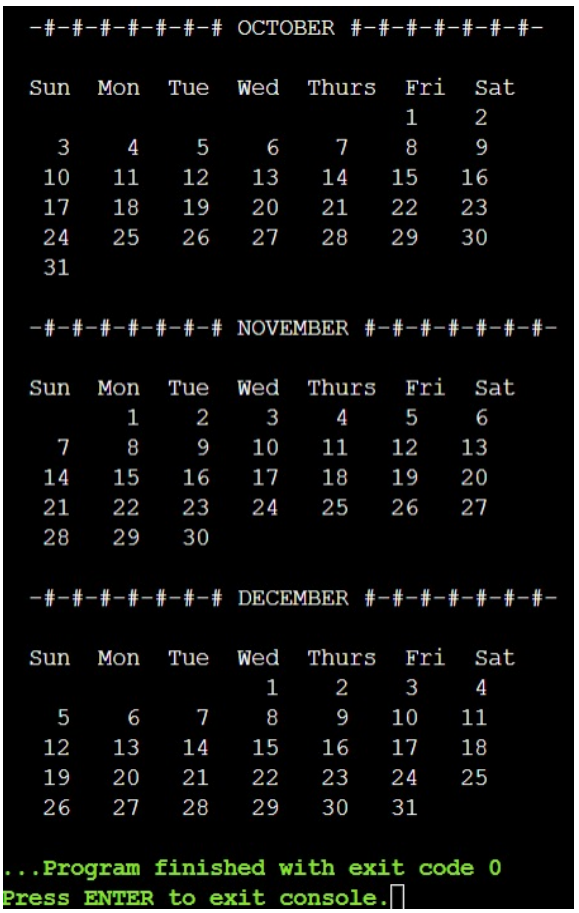
OUTPUT:

```
Enter your desired year:2060


  -#-#-#-#-#-#-# JANUARY #-#-#-#-#-#-#-

  Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                     1    2    3
    4    5    6    7    8    9   10
   11   12   13   14   15   16   17
   18   19   20   21   22   23   24
   25   26   27   28   29   30   31


  -#-#-#-#-#-#-# FEBRUARY #-#-#-#-#-#-#-

  Sun  Mon  Tue  Wed  Thurs  Fri  Sat
    1    2    3    4    5    6    7
    8    9   10   11   12   13   14
   15   16   17   18   19   20   21
   22   23   24   25   26   27   28
   29

  -#-#-#-#-#-#-# MARCH #-#-#-#-#-#-#-

  Sun  Mon  Tue  Wed  Thurs  Fri  Sat
         1    2    3    4    5    6
    7    8    9   10   11   12   13
   14   15   16   17   18   19   20
   21   22   23   24   25   26   27
   28   29   30   31
```

```
-#-#-#-#-#-#-# APRIL #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                    1    2    3
  4    5    6    7    8    9   10
 11   12   13   14   15   16   17
 18   19   20   21   22   23   24
 25   26   27   28   29   30

-#-#-#-#-#-#-# MAY #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                              1
  2    3    4    5    6    7    8
  9   10   11   12   13   14   15
 16   17   18   19   20   21   22
 23   24   25   26   27   28   29
 30   31

-#-#-#-#-#-#-# JUNE #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
          1    2    3    4    5
  6    7    8    9   10   11   12
 13   14   15   16   17   18   19
 20   21   22   23   24   25   26
 27   28   29   30
```



```
-#-#-#-#-#-#-# JULY #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                       1    2    3
  4    5    6    7    8    9   10
 11   12   13   14   15   16   17
 18   19   20   21   22   23   24
 25   26   27   28   29   30   31


-#-#-#-#-#-#-# AUGUST #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
  1    2    3    4    5    6    7
  8    9   10   11   12   13   14
 15   16   17   18   19   20   21
 22   23   24   25   26   27   28
 29   30   31


-#-#-#-#-#-#-# SEPTEMBER #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                  1    2    3    4
  5    6    7    8    9   10   11
 12   13   14   15   16   17   18
 19   20   21   22   23   24   25
 26   27   28   29   30
```



```
-#-#-#-#-#-#-# OCTOBER #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                       1    2
  3    4    5    6    7    8    9
 10   11   12   13   14   15   16
 17   18   19   20   21   22   23
 24   25   26   27   28   29   30
 31


-#-#-#-#-#-#-# NOVEMBER #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
       1    2    3    4    5    6
  7    8    9   10   11   12   13
 14   15   16   17   18   19   20
 21   22   23   24   25   26   27
 28   29   30


-#-#-#-#-#-#-# DECEMBER #-#-#-#-#-#-#-

Sun  Mon  Tue  Wed  Thurs  Fri  Sat
                  1    2    3    4
  5    6    7    8    9   10   11
 12   13   14   15   16   17   18
 19   20   21   22   23   24   25
 26   27   28   29   30   31

...Program finished with exit code 0
Press ENTER to exit console.
```

PROJECT BY:

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