```c
#include<stdio.h>

#define TRUE    1
#define FALSE   0

int days_in_month[]={0,31,28,31,30,31,30,31,31,30,31,30,31};
char *months[]=
{
    " ",
    "\n\n\nJanuary",
    "\n\n\nFebruary",
    "\n\n\nMarch",
    "\n\n\nApril",
    "\n\n\nMay",
    "\n\n\nJune",
    "\n\n\nJuly",
    "\n\n\nAugust",
    "\n\n\nSeptember",
    "\n\n\nOctober",
    "\n\n\nNovember",
    "\n\n\nDecember"
};
```

```c
int inputyear(void)
{
    int year;

    printf("Please enter a year (example: 1999) : ");
    scanf("%d", &year);
    return year;
}


int determinedaycode(int year)
{
    int daycode;
    int d1, d2, d3;

    d1 = (year - 1.)/ 4.0;
    d2 = (year - 1.)/ 100.;
    d3 = (year - 1.)/ 400.;
    daycode = (year + d1 - d2 + d3) %7;
    return daycode;
}



int determineleapyear(int year)
{
```

```c
int determineleapyear(int year)
{

    if(year% 4 == FALSE && year%100 != FALSE || year%400 == FALSE)

    {

        days_in_month[2] = 29;
        return TRUE;

    }
    else

    {

        days_in_month[2] = 28;
        return FALSE;

    }

}


void calendar(int year, int daycode)
{

    int month, day;
    for ( month = 1; month <= 12; month++ )

    {

        printf("%s", months[month]);
        printf("\n\nSun  Mon  Tue  Wed  Thu  Fri  Sat\n" );
```

```c
        // Correct the position for the first date
        for ( day = 1; day <= 1 + daycode * 5; day++ )
        {
            printf(" ");
        }

        // Print all the dates for one month
        for ( day = 1; day <= days_in_month[month]; day++ )
        {
            printf("%2d", day );

            // Is day before Sat? Else start next line Sun.
            if ( ( day + daycode ) % 7 > 0 )
                printf("   " );
            else
                printf("\n " );
        }
        // Set position for next month
        daycode = ( daycode + days_in_month[month] ) % 7;
    }
}
```

```c
int main(void)
{
    int year, daycode, leapyear;

    year = inputyear();
    daycode = determinedaycode(year);
    determineleapyear(year);
    calendar(year, daycode);
    printf("\n");
}
```

```
..........................................
            February , 2011
..........................................

  S     M     T     W     T     F     S
              01    02    03    04    05
  06    07    08    09    10    11    12
  13    14    15    16    17    18    19
  20    21    22    23    24    25    26
  27    28
```

Press 'n' to Next, Press 'p' to Previous and 'q' to Quit
Red Background indicates the NOTE, Press 's' to see note: _