

حقوق النشر محفوظة، أسعار الكورسات في المنصة هي أسعار رمزيه جدا، ارجو عدم نشر هذه الوثيقة لان نشرها سيمنعنا من الاستمرار في تقديم العلم للآخرين

ارجو عدم استخدام هذه الوثيقة من غير وجه حق لأنك ستحرم الاف الناس من التعلم

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```
#include <iostream>
using namespace std;
bool isLeapYear(short Year)
    // if year is divisible by 4 AND not divisible by 100
  // OR if year is divisible by 400
  // then it is a leap year
   return (Year % 4 == 0 && Year % 100 != 0) | (Year % 400 == 0);
}
short DayOfWeekOrder(short Day, short Month, short Year)
    short a, y, m;
    a = (14 - Month) / 12;
    y = Year - a;
    m = Month + (12 * a) - 2;
    // Gregorian:
    //0:sun, 1:Mon, 2:Tue...etc
    return (Day + y + (y / 4) - (y / 100) + (y / 400) + ((31 * m)
/ 12)) % 7;
string DayShortName(short DayOfWeekOrder)
    string arrDayNames[] = {
"Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat" };
    return arrDayNames[DayOfWeekOrder];
}
short NumberOfDaysInAMonth(short Month, short Year)
    if (Month < 1 || Month>12)
        return 0;
    int days[12] = { 31,28,31,30,31,30,31,30,31,30,31 };
    return (Month == 2) ? (isLeapYear(Year) ? 29 : 28) :
days[Month - 1];
}
```



```
string MonthShortName(short MonthNumber)
   string Months[12] = { "Jan", "Feb", "Mar",
                       "Apr", "May", "Jun",
"Jul", "Aug", "Sep",
"Oct", "Nov", "Dec"
    };
   return (Months[MonthNumber - 1]);
}
void PrintMonthCalendar(short Month, short Year)
    int NumberOfDays;
    // Index of the day from 0 to 6
    int current = DayOfWeekOrder(1, Month, Year);
   NumberOfDays = NumberOfDaysInAMonth(Month, Year);
   // Print the current month name
    printf("\n _____\n\n",
        MonthShortName(Month).c_str());
    // Print the columns
   printf(" Sun Mon Tue Wed Thu Fri Sat\n");
   // Print appropriate spaces
    int i;
   for (i = 0; i < current; i++)</pre>
       printf(" ");
    for (int j = 1; j <= NumberOfDays; j++)</pre>
    {
        printf("%5d", j);
        if (++i == 7)
            i = 0;
           printf("\n");
        }
    }
   printf("\n _____\n");
}
```



```
short ReadMonth()
    short Month;
    cout << "\nPlease enter a Month? ";</pre>
    cin >> Month;
    return Month;
}
short ReadYear()
    short Year;
    cout << "\nPlease enter a year? ";</pre>
    cin >> Year;
    return Year;
}
int main()
{
    short Year = ReadYear();
    short Month = ReadMonth();
    PrintMonthCalendar(Month, Year);
    system("pause>0");
    return 0;
}
```