

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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```
#pragma warning(disable : 4996)
#include <iostream>
using namespace std;
struct stDate
{
    short Year;
    short Month;
    short Day;
};
bool isLeapYear(short Year)
  return (Year % 4 == 0 && Year % 100 != 0) || (Year % 400 == 0);
}
bool IsDate1BeforeDate2(stDate Date1, stDate Date2)
    return (Date1.Year < Date2.Year) ? true : ((Date1.Year ==</pre>
Date2.Year) ? (Date1.Month < Date2.Month ? true : (Date1.Month ==
Date2.Month ? Date1.Day < Date2.Day : false);</pre>
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];
}
bool IsLastDayInMonth(stDate Date)
    return (Date.Day == NumberOfDaysInAMonth(Date.Month,
Date.Year));
}
bool IsLastMonthInYear(short Month)
{
    return (Month == 12);
}
```



```
stDate IncreaseDateByOneDay(stDate Date)
    if (IsLastDayInMonth(Date))
    {
        if (IsLastMonthInYear(Date.Month))
        {
            Date.Month = 1;
            Date.Day = 1;
            Date.Year++;
        }
        else
        {
            Date.Day = 1;
            Date.Month++;
        }
    }
    else
    {
        Date.Day++;
    }
    return Date;
}
int GetDifferenceInDays(stDate Date1, stDate Date2, bool
IncludeEndDay = false)
    int Days = 0;
    while (IsDate1BeforeDate2(Date1, Date2))
    {
        Days++;
        Date1 = IncreaseDateByOneDay(Date1);
    }
    return IncludeEndDay ? ++Days : Days;
}
short ReadDay()
    short Day;
    cout << "\nPlease enter a Day? ";</pre>
    cin >> Day;
    return Day;
}
```



```
short ReadMonth()
    short Month;
    cout << "Please enter a Month? ";</pre>
    cin >> Month;
    return Month;
}
short ReadYear()
{
    short Year;
    cout << "Please enter a Year? ";</pre>
    cin >> Year;
    return Year;
}
stDate ReadFullDate()
    stDate Date;
    Date.Day = ReadDay();
    Date.Month = ReadMonth();
    Date.Year = ReadYear();
    return Date;
}
stDate GetSystemDate()
    stDate Date;
    time_t t = time(0);
    tm* now = localtime(&t);
    Date.Year = now->tm_year + 1900;
    Date.Month = now->tm_mon + 1;
    Date.Day = now->tm_mday;
    return Date;
}
```



