

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

ProgrammingAdvices.com





```
#include <iostream>
using namespace std;
struct sDate
{
    short Year;
    short Month;
    short Day;
};
bool isLeapYear(short Year)
  return (Year % 4 == 0 && Year % 100 != 0) || (Year % 400 == 0);
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];
}
short NumberOfDaysFromTheBeginingOfTheYear(short Day, short Month,
short Year)
{
    short TotalDays = 0;
    for (int i = 1; i <= Month - 1; i++)</pre>
        TotalDays += NumberOfDaysInAMonth(i, Year);
    }
    TotalDays += Day;
    return TotalDays;
}
```





```
sDate DateAddDays(short Days, sDate Date)
    short RemainingDays = Days +
NumberOfDaysFromTheBeginingOfTheYear(Date.Day, Date.Month,
Date.Year);
    short MonthDays = 0;
    Date.Month = 1;
    while (true)
        MonthDays = NumberOfDaysInAMonth(Date.Month, Date.Year);
        if (RemainingDays > MonthDays)
            RemainingDays -= MonthDays;
            Date.Month++;
            if (Date.Month > 12)
                Date.Month = 1;
                Date.Year++;
            }
        }
        else
        {
            Date.Day = RemainingDays;
            break;
        }
    }
    return Date;
}
short ReadDay()
    short Day;
    cout << "\nPlease enter a Day? ";</pre>
    cin >> Day;
    return Day;
}
```



```
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;
}
sDate ReadFullDate()
    sDate Date;
    Date.Day = ReadDay();
    Date.Month = ReadMonth();
    Date.Year = ReadYear();
    return Date;
}
short ReadDaysToAdd()
    short Days;
    cout << "\nHow many days to add? ";</pre>
    cin >> Days;
    return Days;
}
int main()
{
    sDate Date = ReadFullDate();
    short Days = ReadDaysToAdd();
    Date = DateAddDays(Days, Date);
    cout << "\nDate after adding [" << Days << "] days is: ";</pre>
    cout << Date.Day << "/" << Date.Month << "/" << Date.Year;</pre>
    system("pause>0");
    return 0;
}
```