

```
List(int) NextDate(int day,int month, int year){
```

```
    int nextday int= day;  
    int nextmonth = month;  
    int nextyear = year;
```

```
    if(day<=0 || day>31)  
        nextday=invalid;
```

```
    if(month<=0 || month>12)  
        nextmonth=invalid;
```

```
    if(year<1812 || day>2012)  
        nextyear=invalid;
```

```
    switch(month){
```

```
        case 1:{1,3,5,7,8,10}
```

```
            if(day<31){  
                day=day+1;  
                break;  
            }  
            elseif(day==31){  
                nextday=1;  
                nextmonth=month+1;  
                break;  
            }
```

```
        case 2:{4,6,9,11}
```

```
            if(day<30)  
                nextday=day+1;  
                break;  
            elseif(day==30){  
                nextday=1;  
                nextmonth=month+1;  
                break;  
            }
```

```
        case 3:{12}
```

```
            if(day<31){  
                nextday=day+1;  
                break;  
            }  
            elseif(day==31){  
                nextday=1;  
                nextmonth=1;  
                nextyear=year+1;  
                break;  
            }
```

```

case 4:{2}

    if(day>29){
        nextday=invalid;
        break;
    }
    elseif(day<28){
        nextday=day+1;
        break;
    }
    elseif(day=28){
        if(year is a leap year){
            nextday=day+1;
            break;
        }
        else{
            nextday=1;
            nextmonth=3;
            break;
        }
    }
    elseif(day=29){
        nextday=1;
        nextmonth=3;
        break;
    }
}
return (nextday,nextmonth,nextyear);
}

```