

PROGRAM 2

```
#include <stdio.h>
```

```
int is_leap_year(int year) {  
    return (year % 4 == 0 && year % 100 != 0) || year % 400 == 0;  
}
```

```
void next_day(int *day, int *month, int *year) {  
    int days_in_month;
```

```
    switch (*month) {  
        case 1: // January  
        case 3: // March  
        case 5: // May  
        case 7: // July  
        case 8: // August  
        case 10: // October  
        case 12: // December  
            days_in_month = 31;  
            break;  
        case 4: // April  
        case 6: // June  
        case 9: // September  
        case 11: // November  
            days_in_month = 30;  
            break;  
        case 2: // February  
            days_in_month = is_leap_year(*year) ? 29 : 28;  
            break;  
        default:  
            printf("Invalid month\n");  
            return;  
    }
```

```
    if (*day < days_in_month) {  
        (*day)++;  
    } else {  
        (*day) = 1;  
        if (*month == 12) {  
            (*month) = 1;  
            (*year)++;  
        } else {  
            (*month)++;  
        }  
    }  
}
```

```
int main() {  
    int day, month, year;  
    printf("Enter today's date (dd mm yyyy): ");
```

```
scanf("%d %d %d", &day, &month, &year);

next_day(&day, &month, &year);

printf("The next day is: %d %d %d\n", day, month, year);
return 0;
}
```