

Use the following code to test your answers to both questions:

```
Clear;
h = Hospital;
pt(1) = Patient('Keith','Emerson','OR','Cardiology');
pt(2) = Patient('Greg','Lake','Radiology','MS');
pt(3) = Patient('Carl','Palmer',pt(2));

ph(1) = Physician('Jo','Blake','OR','Cardiology');
ph(2) = Physician('Jo','Blage','OR','Cardiology');

for i=1:length(pt)
    admit_patient(h,pt(i));
end

for i=1:length(ph)
    add_physician(h,ph(i));
end

h.disp_hospital_balance()

allocate_physician_to_patient(h,'Keith','Emerson','Jo','Blake');
ph(1).patient_list{1}
[pt] = release_patient(h,'Keith','Emerson');
ph(1).patient_list{1}

h.disp_hospital_balance()
```

expected output:

The hospital balance is = -2700

ans =

Patient with properties:

```

            dept: 'OR'
        disease: 'Cardiology'
            bill: 100
    physician: [1x1 Physician]
       hospital: [1x1 Hospital]
    test_results: []
        sick_flag: -1
PATIENT_STATUS_UNKNOWN: -1
PATIENT_STATUS_HEALTHY: 0
    PATIENT_STATUS_SICK: 1
        first_name: 'Keith'
        last_name: 'Emerson'
            uid: [1x1 struct]
```

ans =

```

    []
```

The hospital balance is = -2800