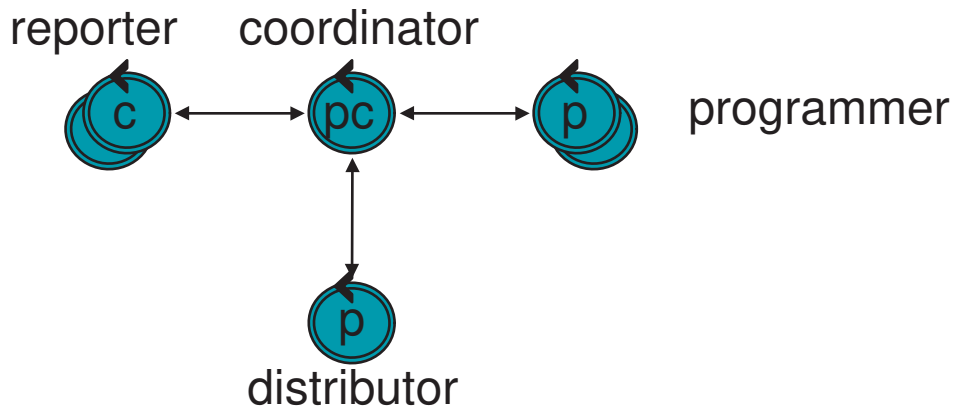
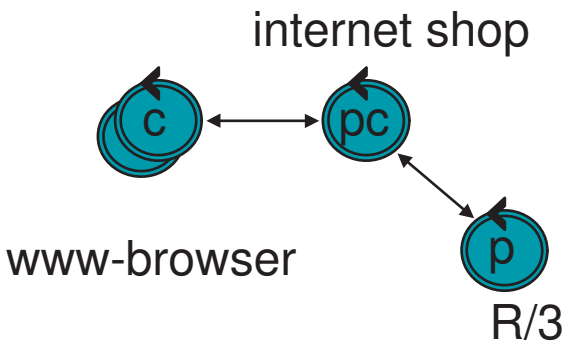
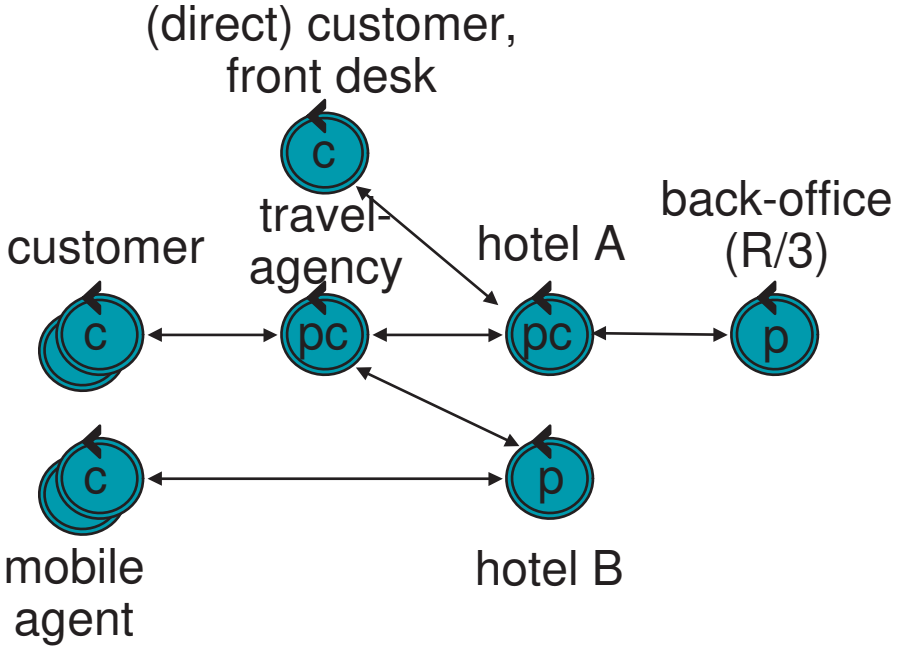


a) **coordinator**



b) **mediator**



c) **broker**