Cohort exercise 1&2 on page 5&6

Exercise 1

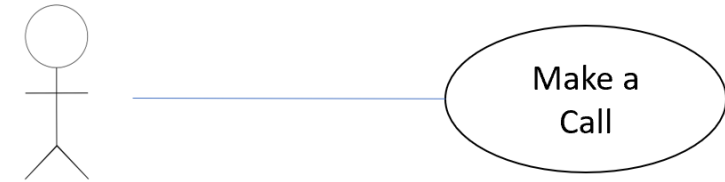Exercise 1:

     primary actor: subscriber or caller.

     secondary actor: local switch.

Exercise 2:
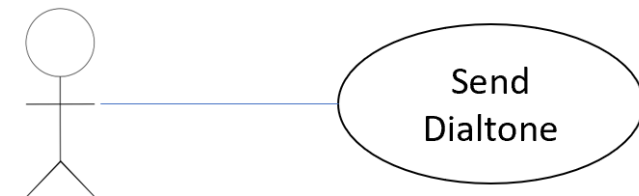
     primary actor: local switch.

     secondary actor: subscriber or caller.
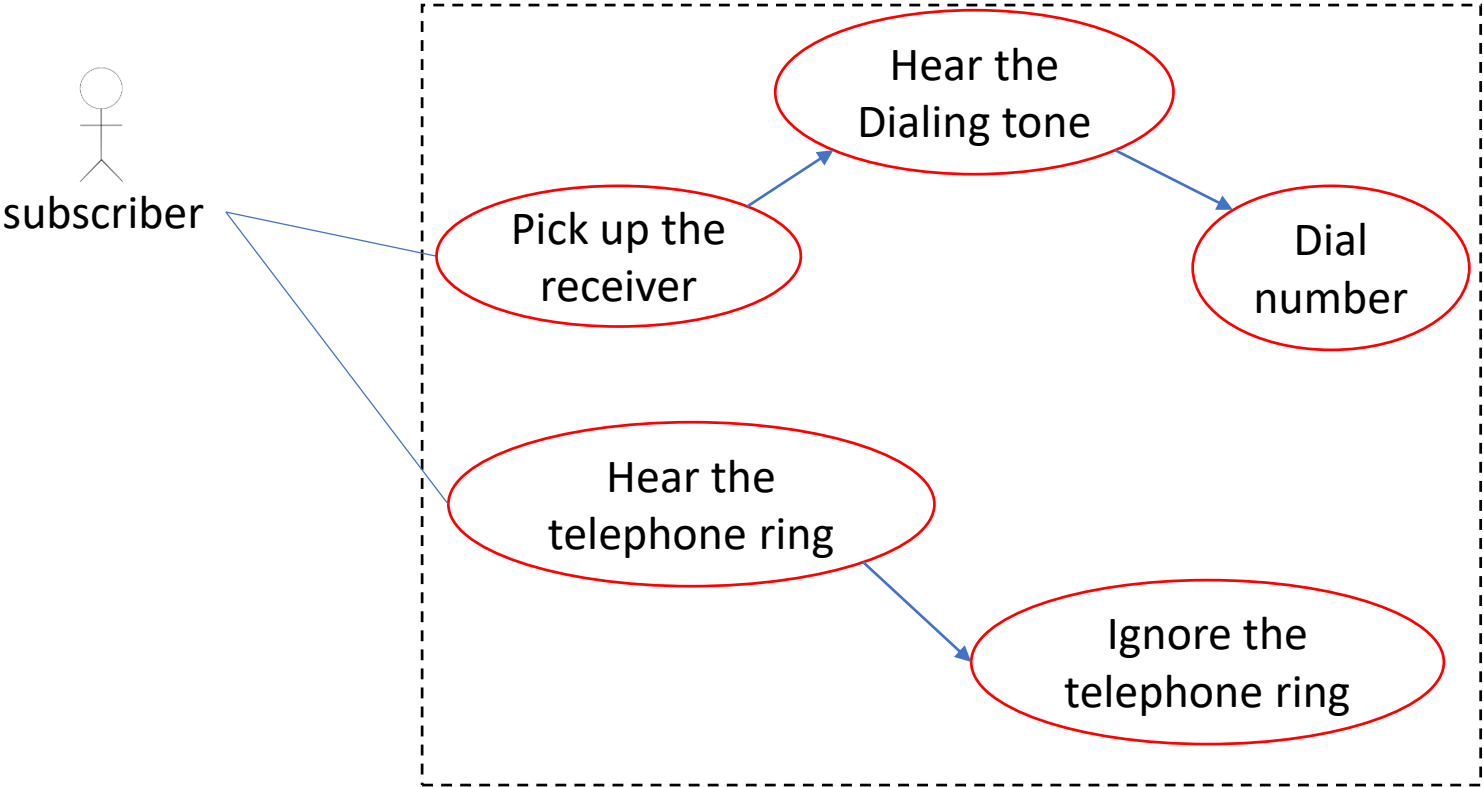
Who are the primary and secondary actors?

Exercise 2

Who are the primary and secondary actors?

Cohort exercise 3 on page13

subscriber

Pick up the receiver

Hear the Dialing tone

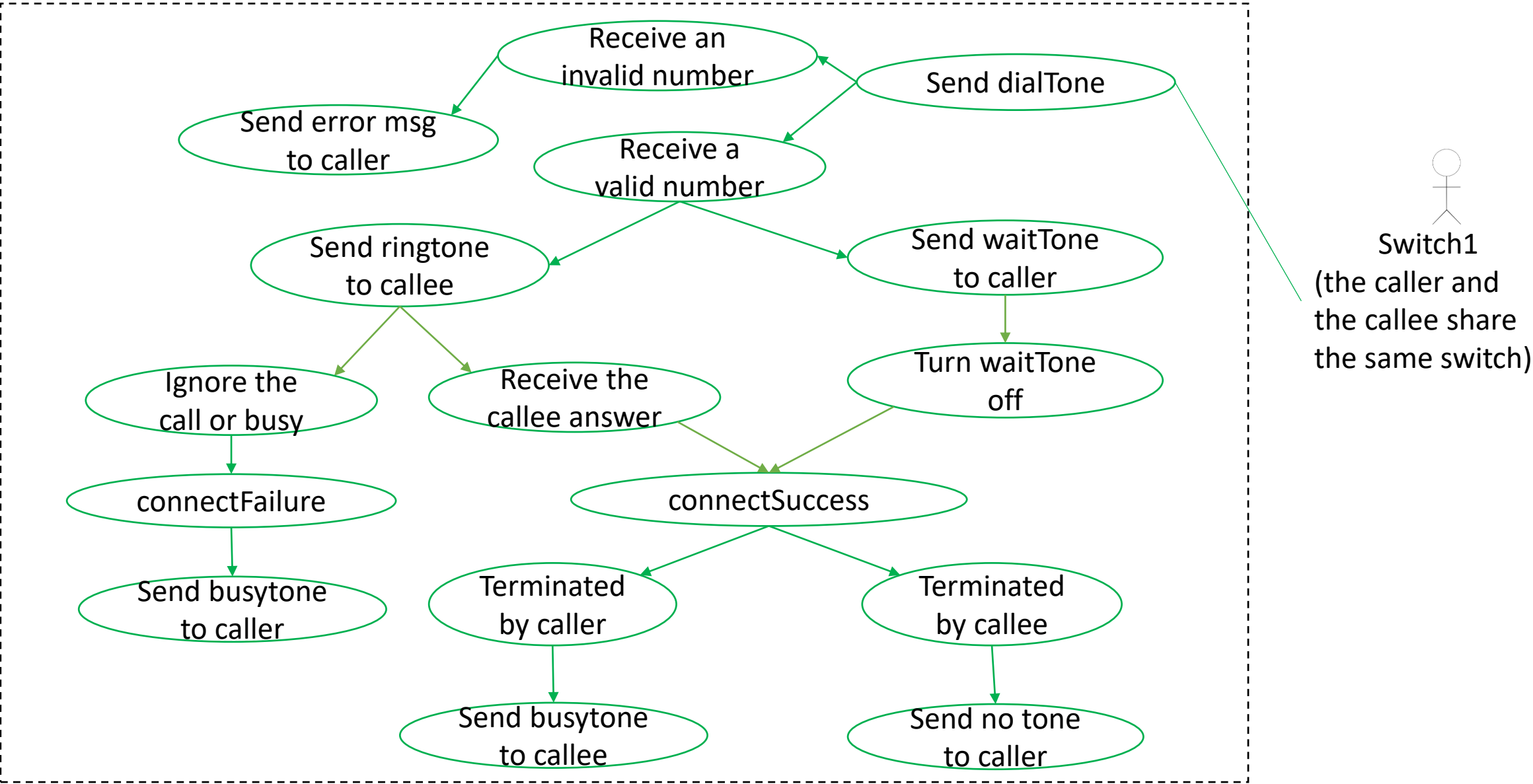Dial number

Hear the telephone ring

Ignore the telephone ring

E3: Draw the use case diagram for the subscribers in Telephone Network System. Pay attention to the granularity of use cases. Draw at least three use cases.

E4: Draw the use case diagram for the Telephone switch in the Telephone Network System. Combine it with the use cases involving subscribers. Pay attention to the granularity of use cases.
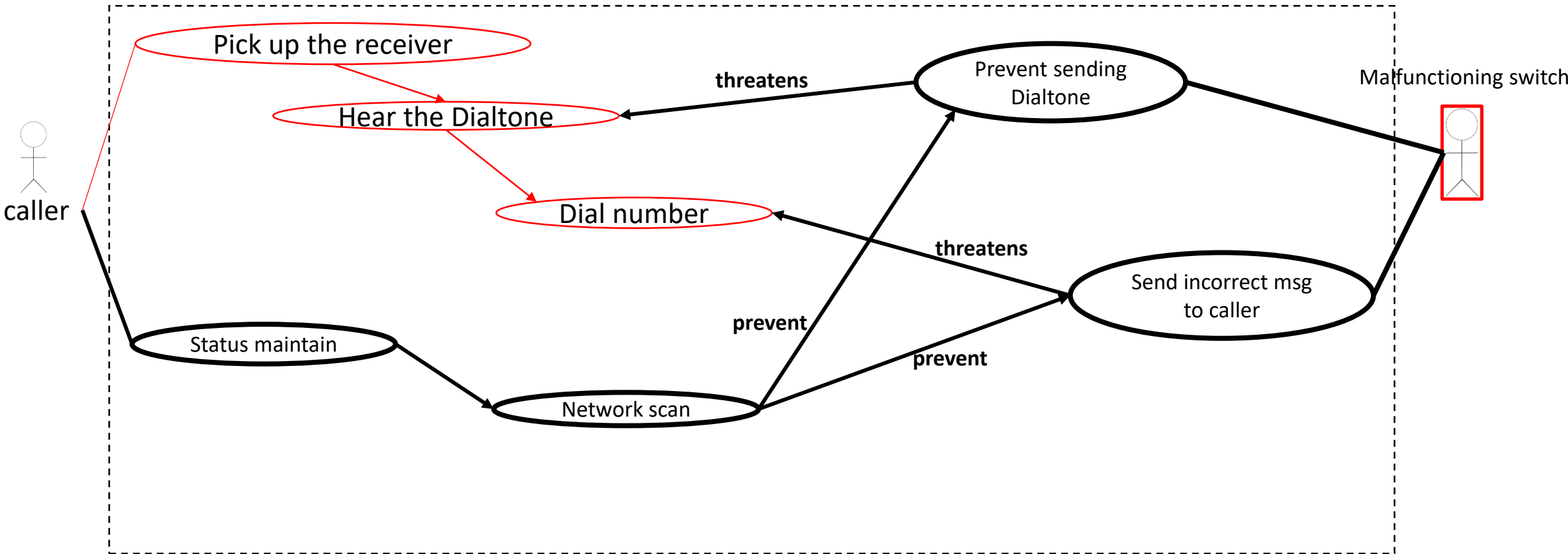
Cohort exercise 4 on page14
*directed arrow means precedence.

Cohort Exercise 5 (10 minutes)

Complete the misuse case diagram for Telephone Network System. Assume the presence of a malfunctioning telephone switch in the network. Incorporate at least two misuse cases. Assume periodic network scan to detect such malfunctioning switch.

In class, draw only the misuse cases, the subscriber use cases, the prevention of misuse and the relevant interactions.

Cohort exercise 5 on page26

Cohort Exercise 7 (10 minutes)

Draw the sequence diagram for the telephone network in following scenarios (Refer to the diagram):

- S1 makes a call to S2
- While S1->S2 call in process, S3 makes a call to S2
- S1->S2 call is established
- Since S2 is busy, outgoing call by S3 is refused
- S3 hangs up
- S1 hangs up
- S2 hangs up

Cohort exercise 7 on page33