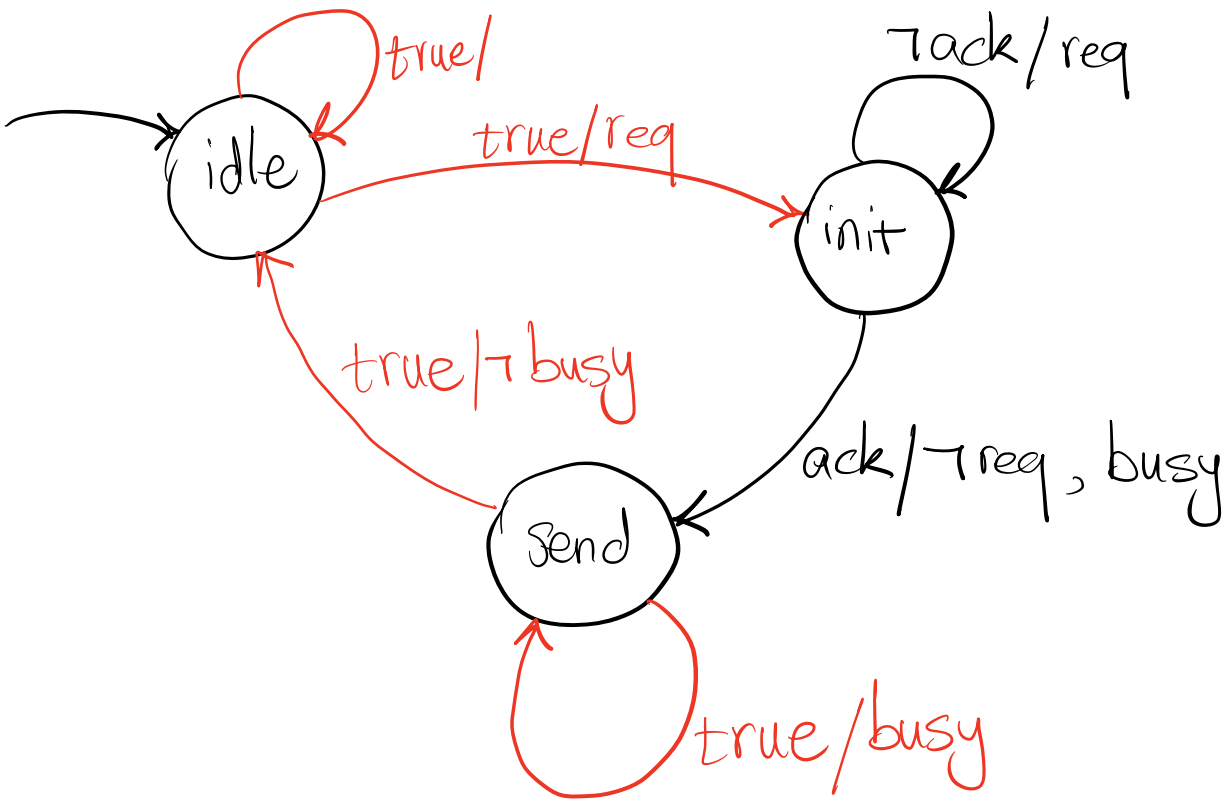
Question 1

[part a]

Source

input : ack : pure

output : req, busy : pure

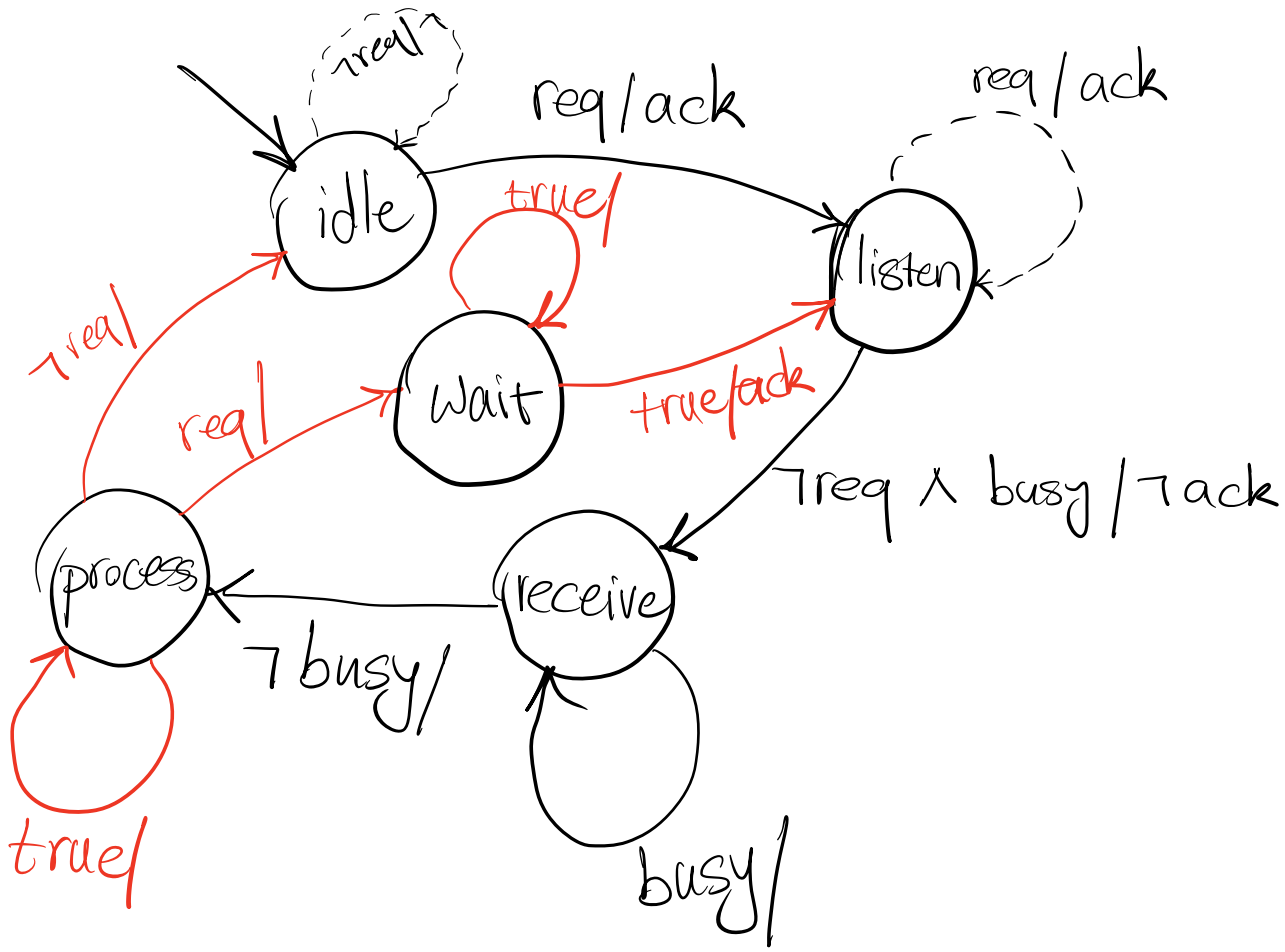


Sink

[part b]

input: req, busy : pure

output: ack : pure



Composition

[part c]