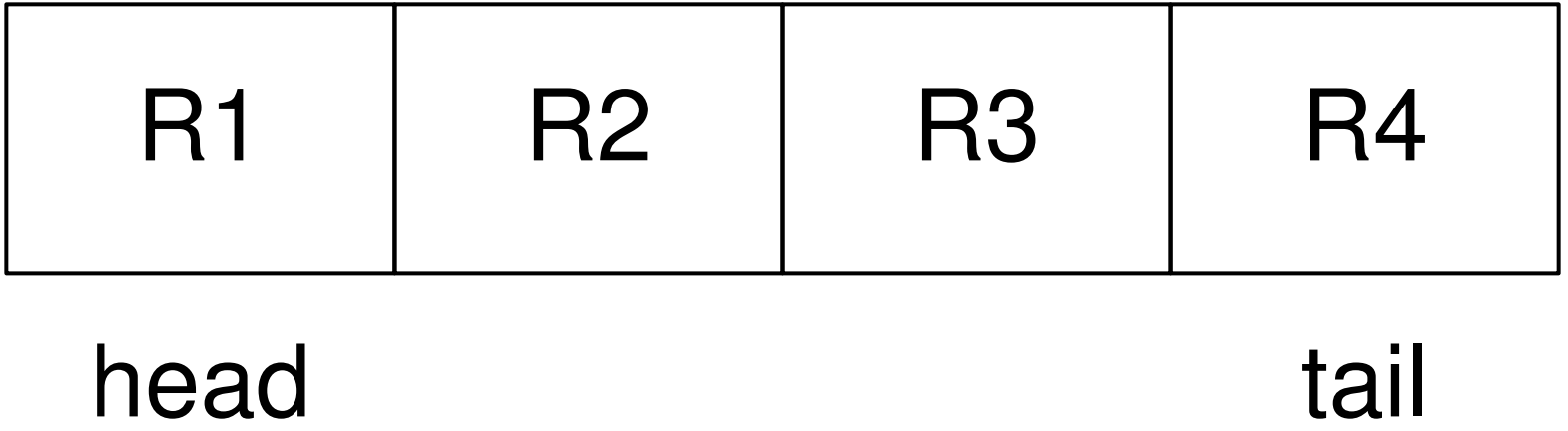

R1
R2
R3
R4
head
tail