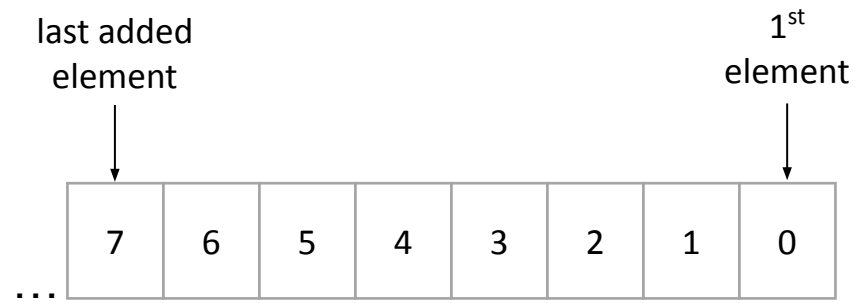


Queue

bounded

limited size queue



FIFO
(first in, first out)
data structure

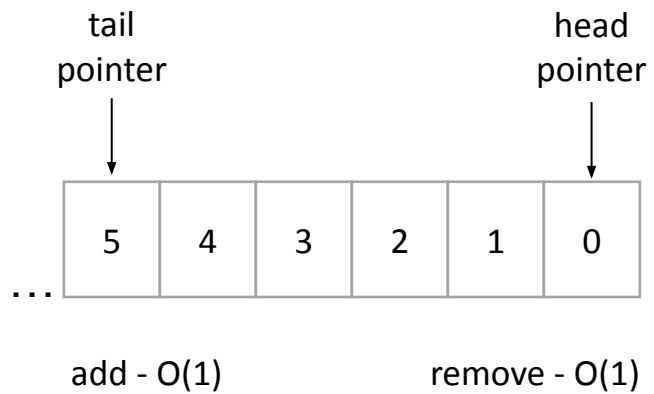
unbounded

unlimited size queue

Queue

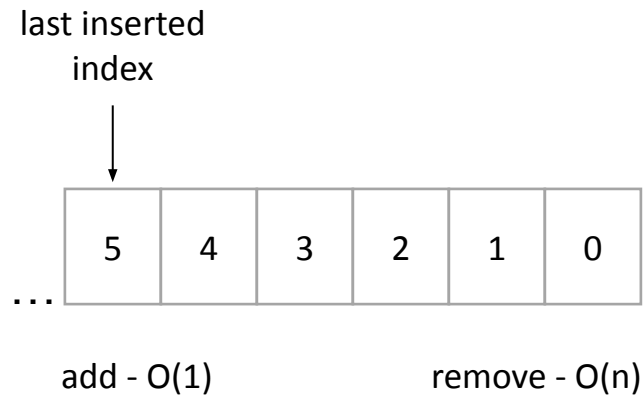
How to implement a queue?

linked list



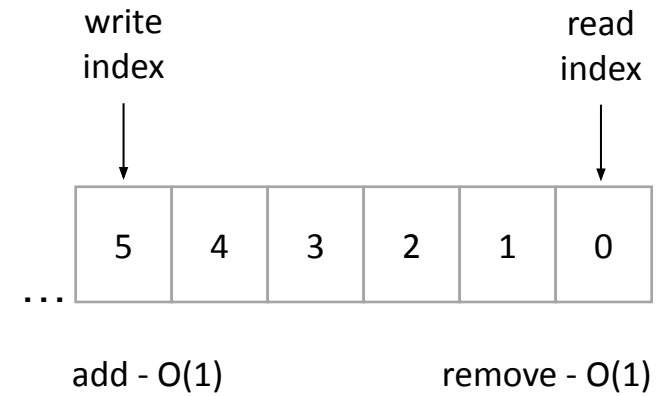
both pointers move to the left

array



a single index is incremented

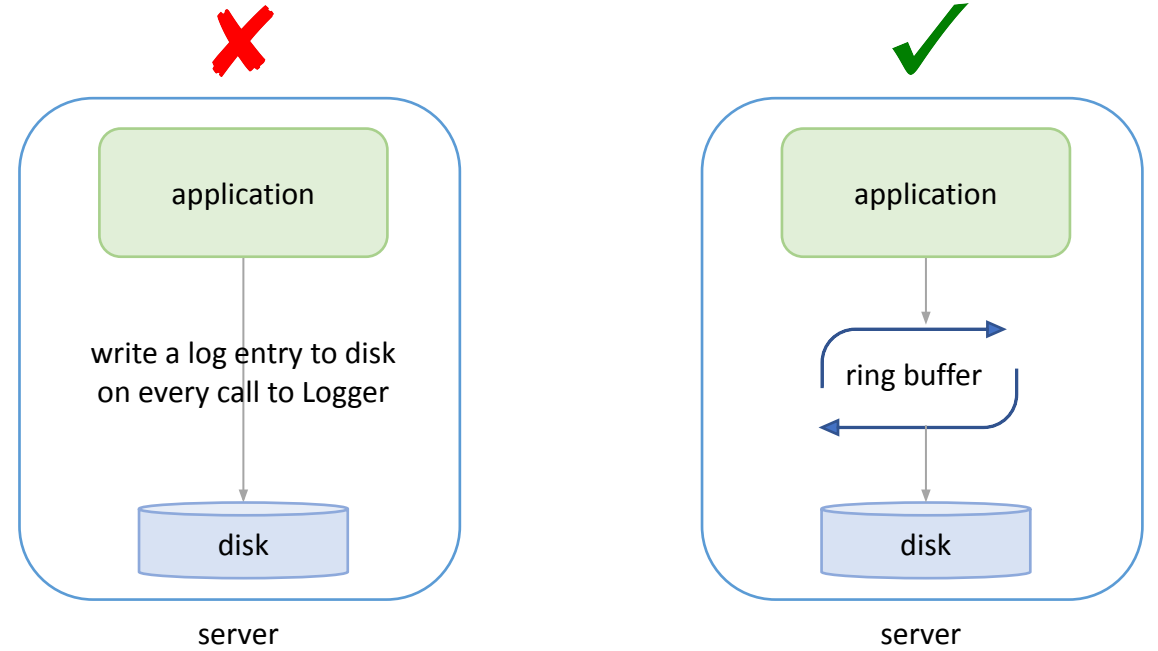
circular buffer (aka ring buffer)



both indexes are incremented and set back to 0 when the end of the array is reached

Queue

circular buffers in
logging



circular buffers in
Hadoop MapReduce

