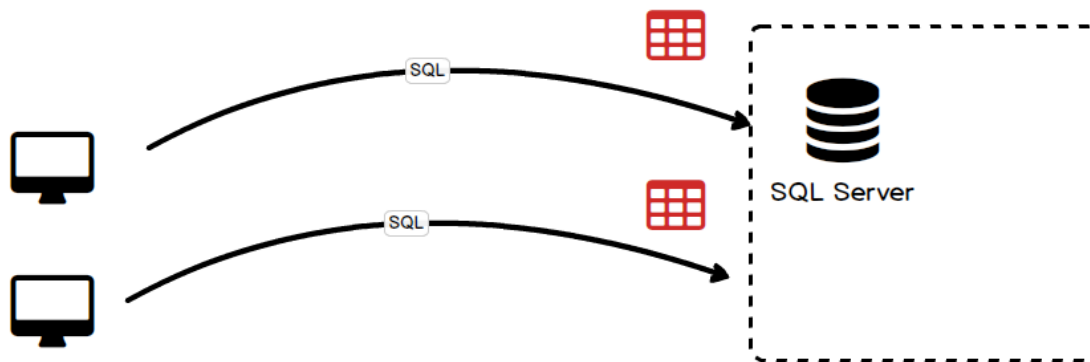
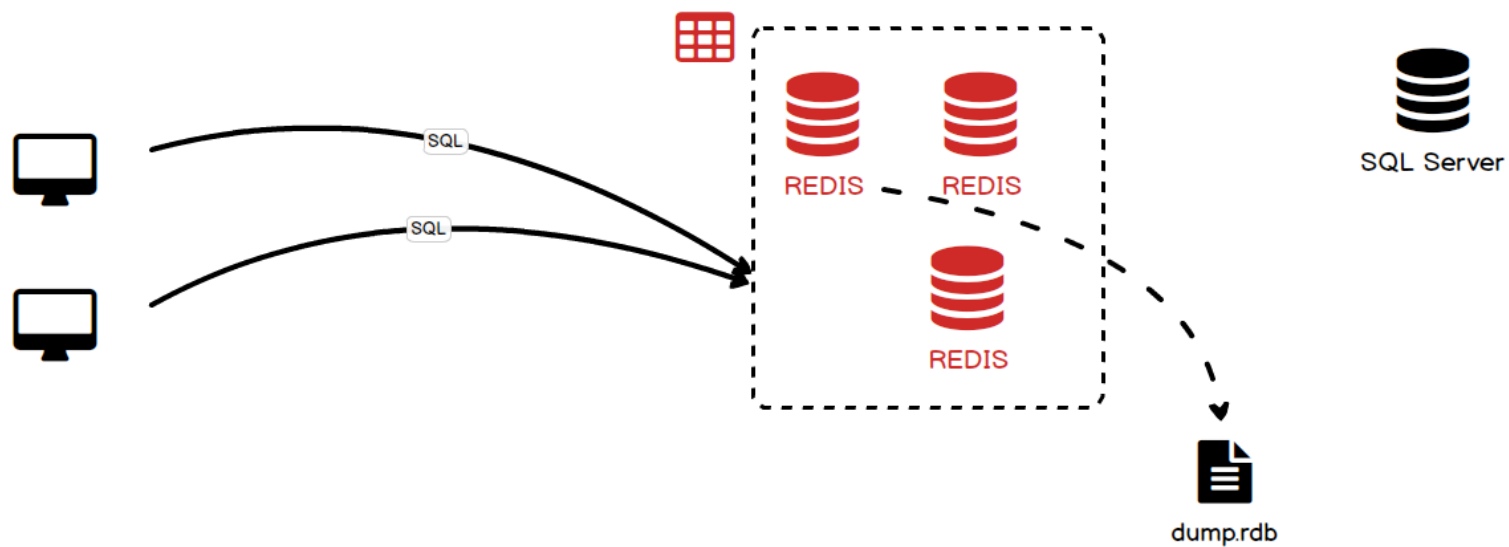


Problem



Rozwiązanie



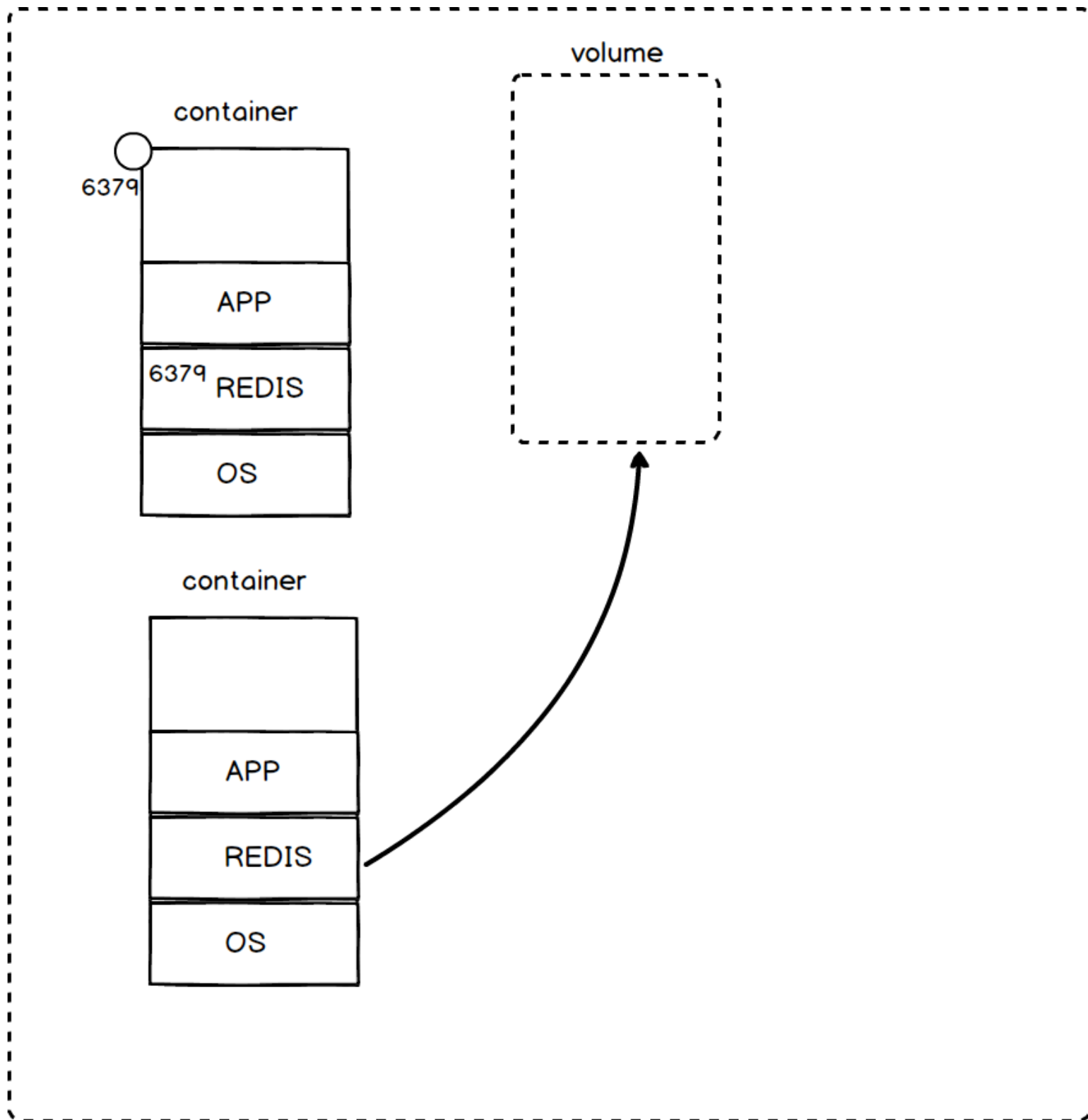
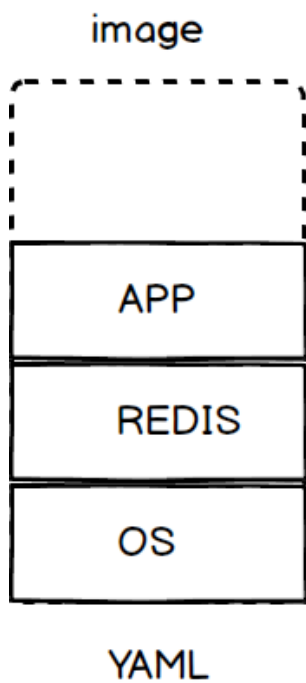
Koszyk zakupowy

Promocje

lista produktów
produkt - upust

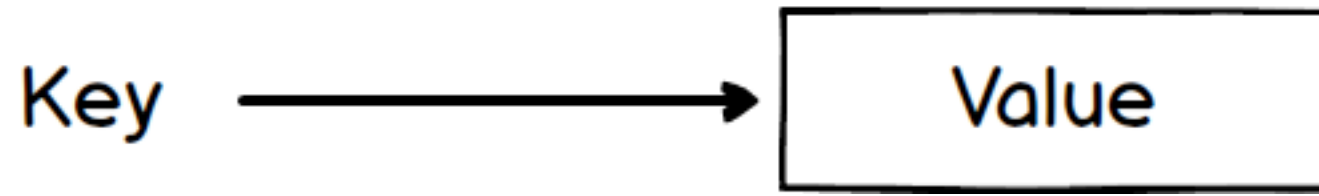
Sesje użytkowników

Statystyki online

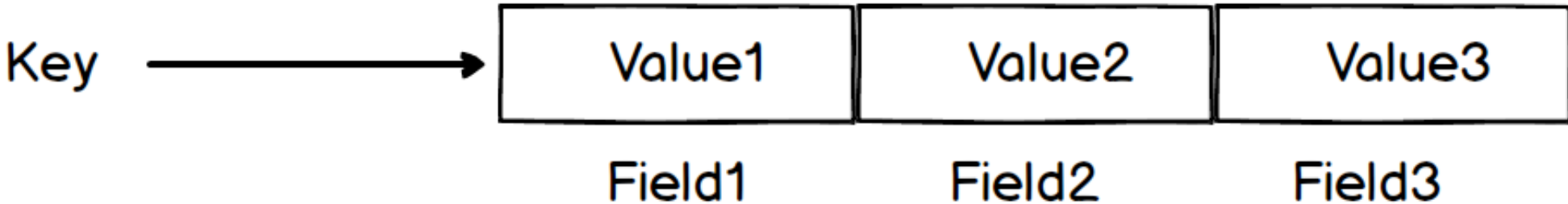


Key-Value	Generic	key	EXPIRE DEL						
	Strings	key	SET SETEX GET INCR DECR INCRBY DECRBY						
	Hash	key	HSET HGET HGETALL HKEYS HVALS HDEL HINCRBY						
	Sets	key	SADD SREM SPOP SCARD SINTER SUNION SDIFF						
	Sorted Sets (Z-Order)	key	ZADD ZREM ZCARD ZRANGEBYSCORE / ZRANGE ZUNION						
	Geo	key	GEOADD GEODIST GEORADIUS GEORADIUSBYMEMBER						
	Bitmaps	key	SETBIT GETBIT GETPOS BITCOUNT						
	HyperLogLog	key	PFADD PFCOUNT						
Pub/Sub	Pub/Sub	channel	SUBSCRIBE PSUBSCRIBE PUBLISH						
	Stream	stream	XADD XREAD XDEL						

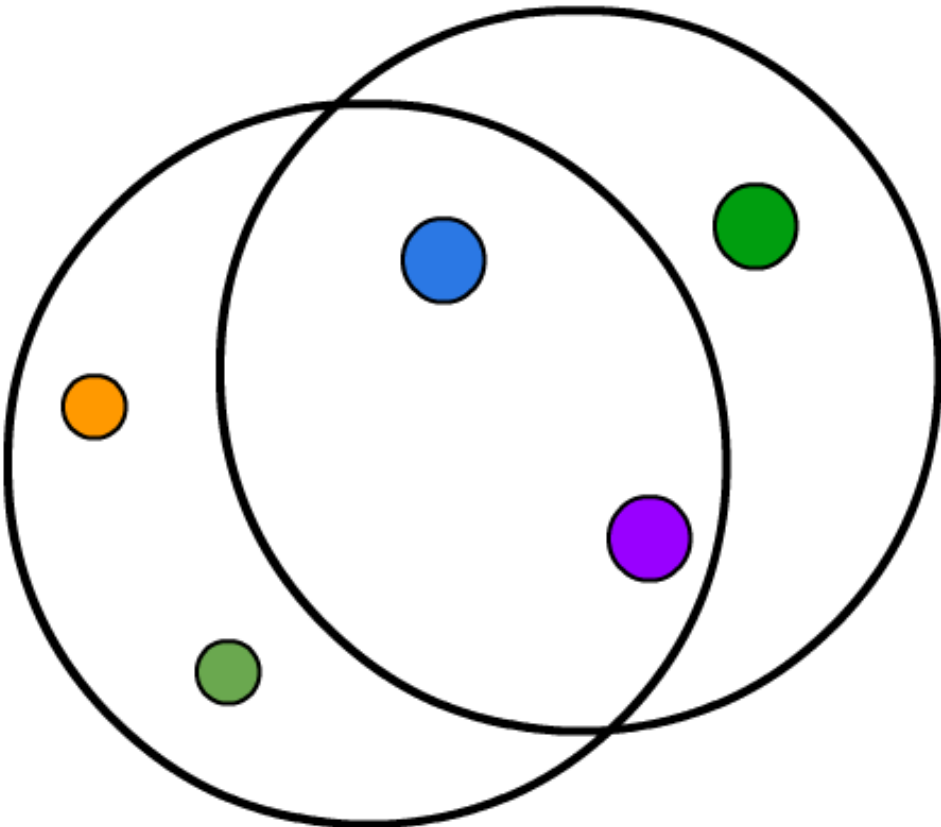
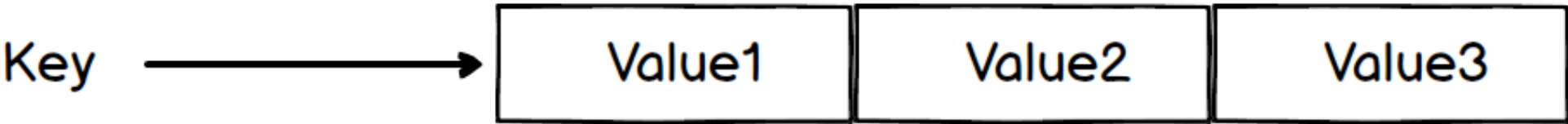
Strings



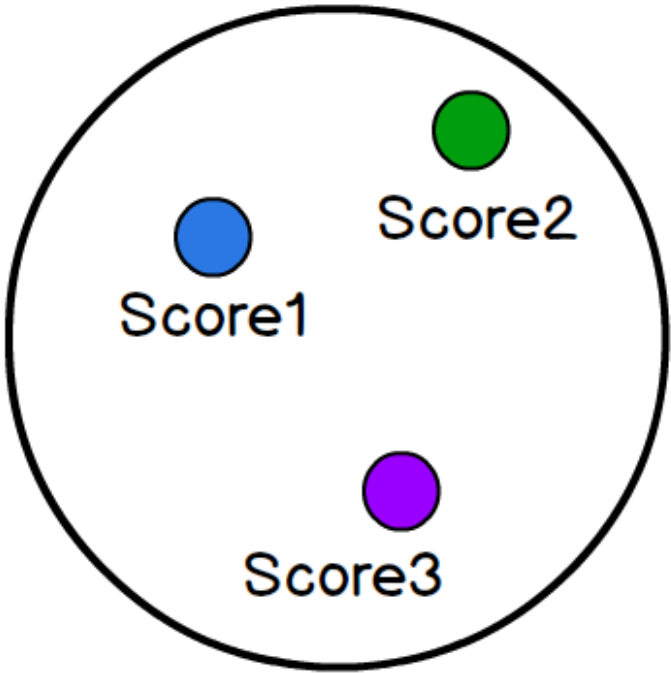
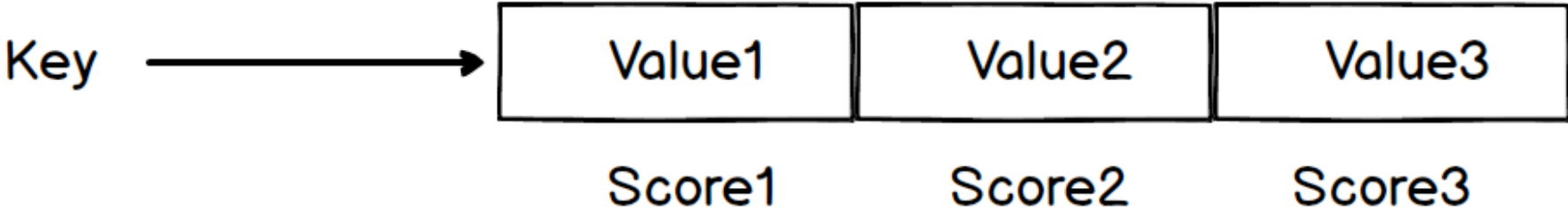
Hash



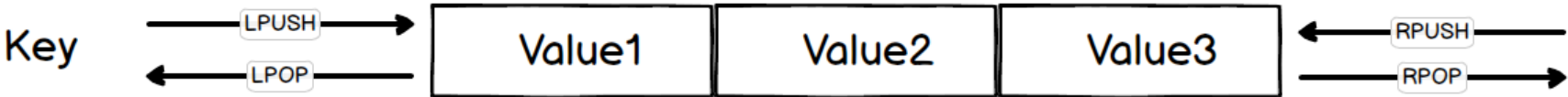
Sets



Sorted Sets (Z-Order)



Lists



Stos (Stack)



FILO
LIFO

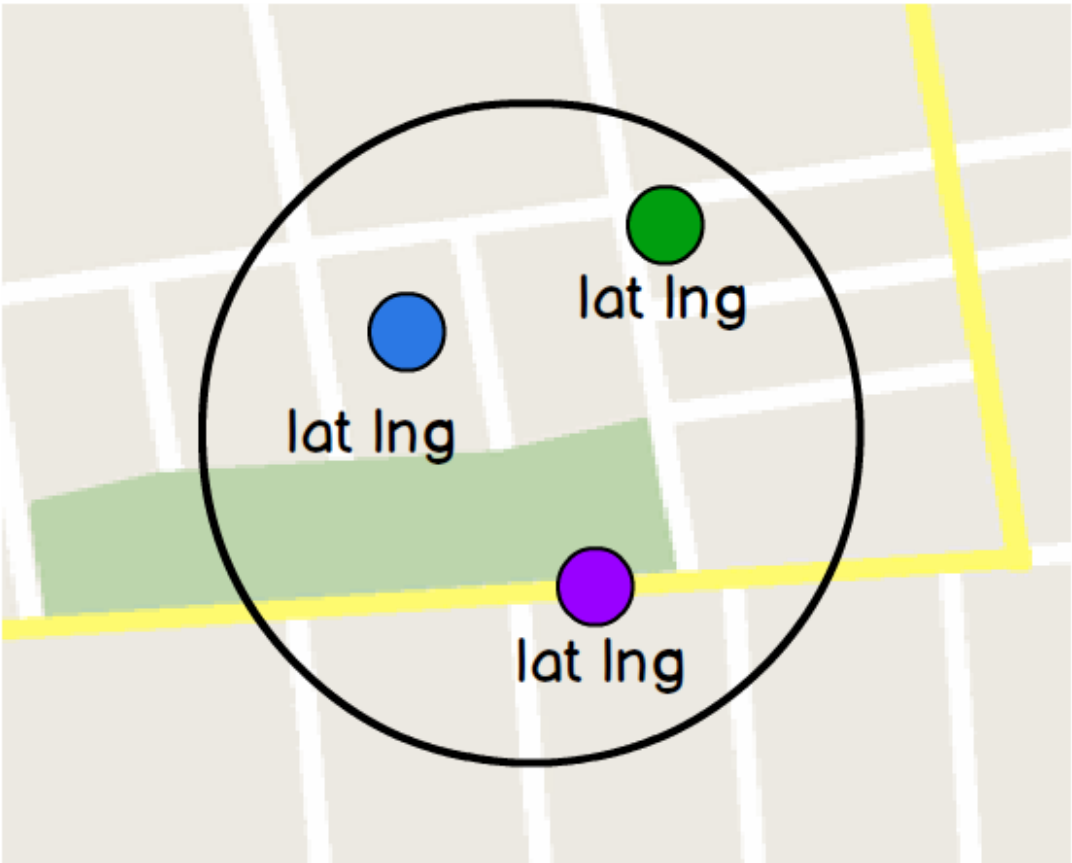
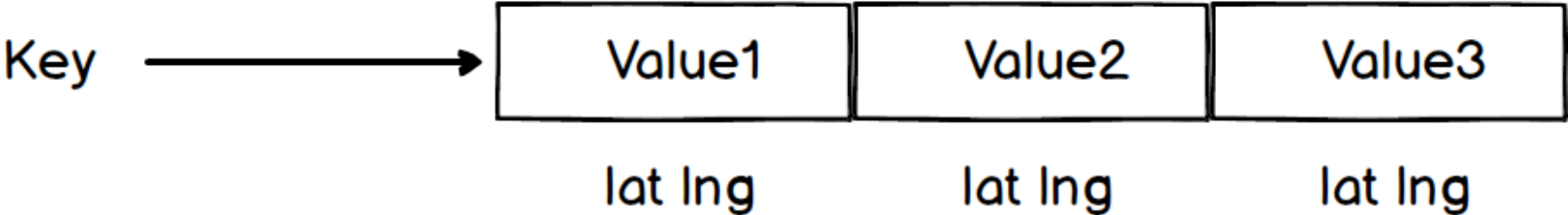
Kolejka FIFO



Kolejka FIFO



Geo (Sorted-List)



Bitmaps

Key



6 5 4 3 2 1 0

Value

execute

write

read

read



2 1 0

write



2 1 0

execute



2 1 0

execute

write

read

file1



2 1 0

5 (dec)

file1 AND read

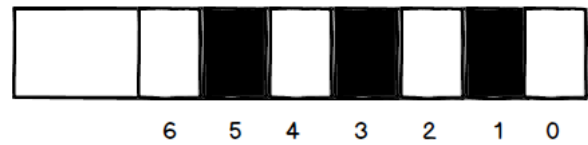


marcin id=5

kamil id=3

mateusz id=6

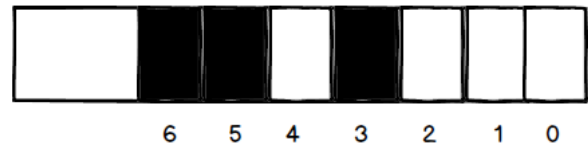
article:1



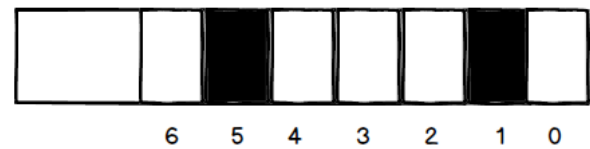
article:2



article:1 OR article:2

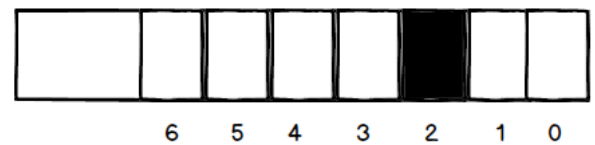


article:1 AND article:2

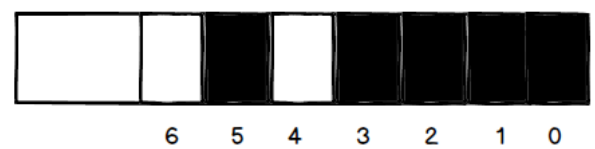


door-opened

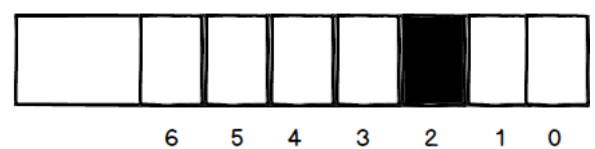
vehicle:1:door-opened



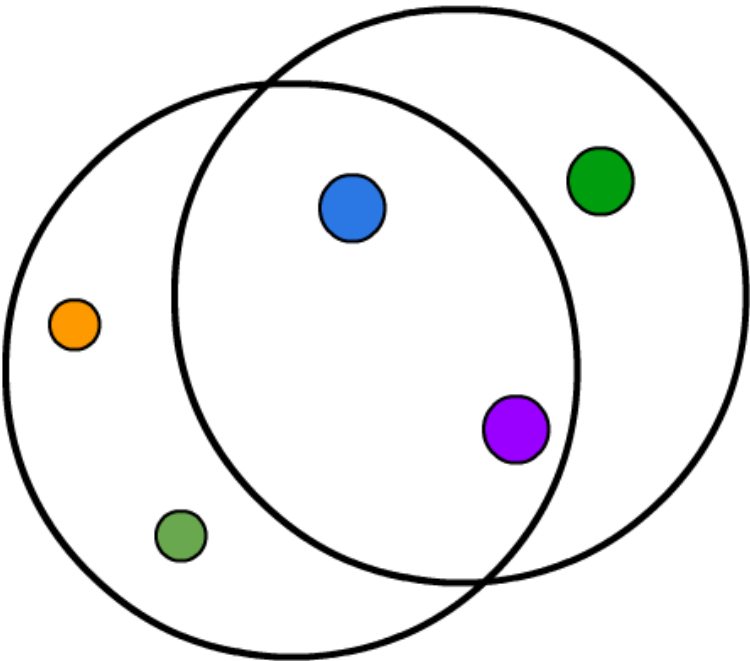
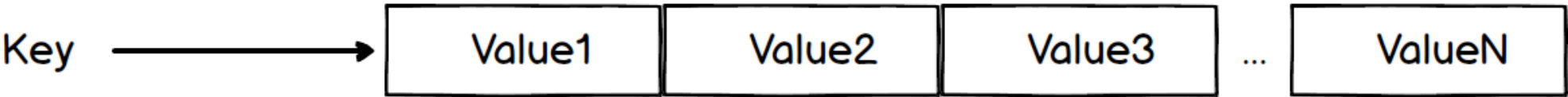
vehicle:1



vehicle:1:door-opened AND vehicle:1



HyperLog (String)

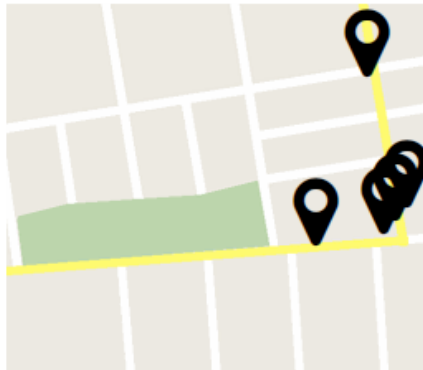
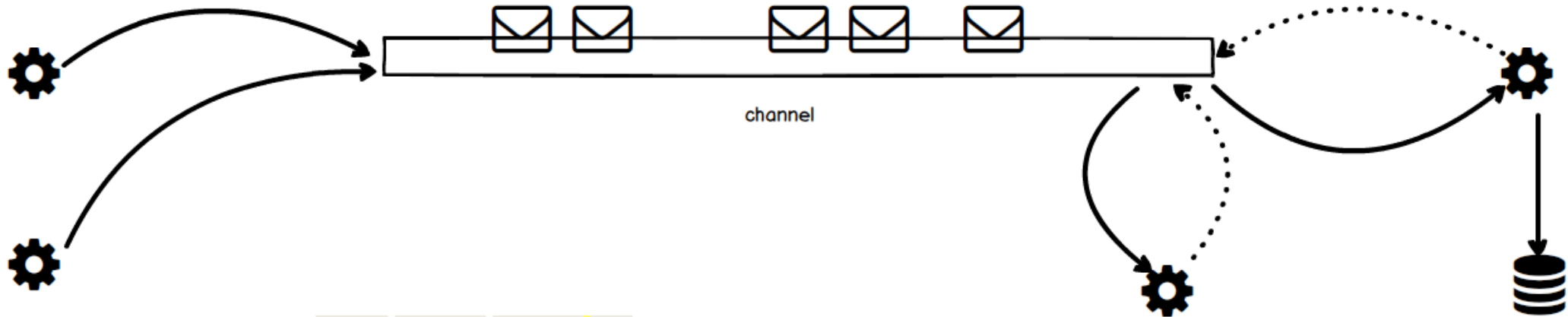




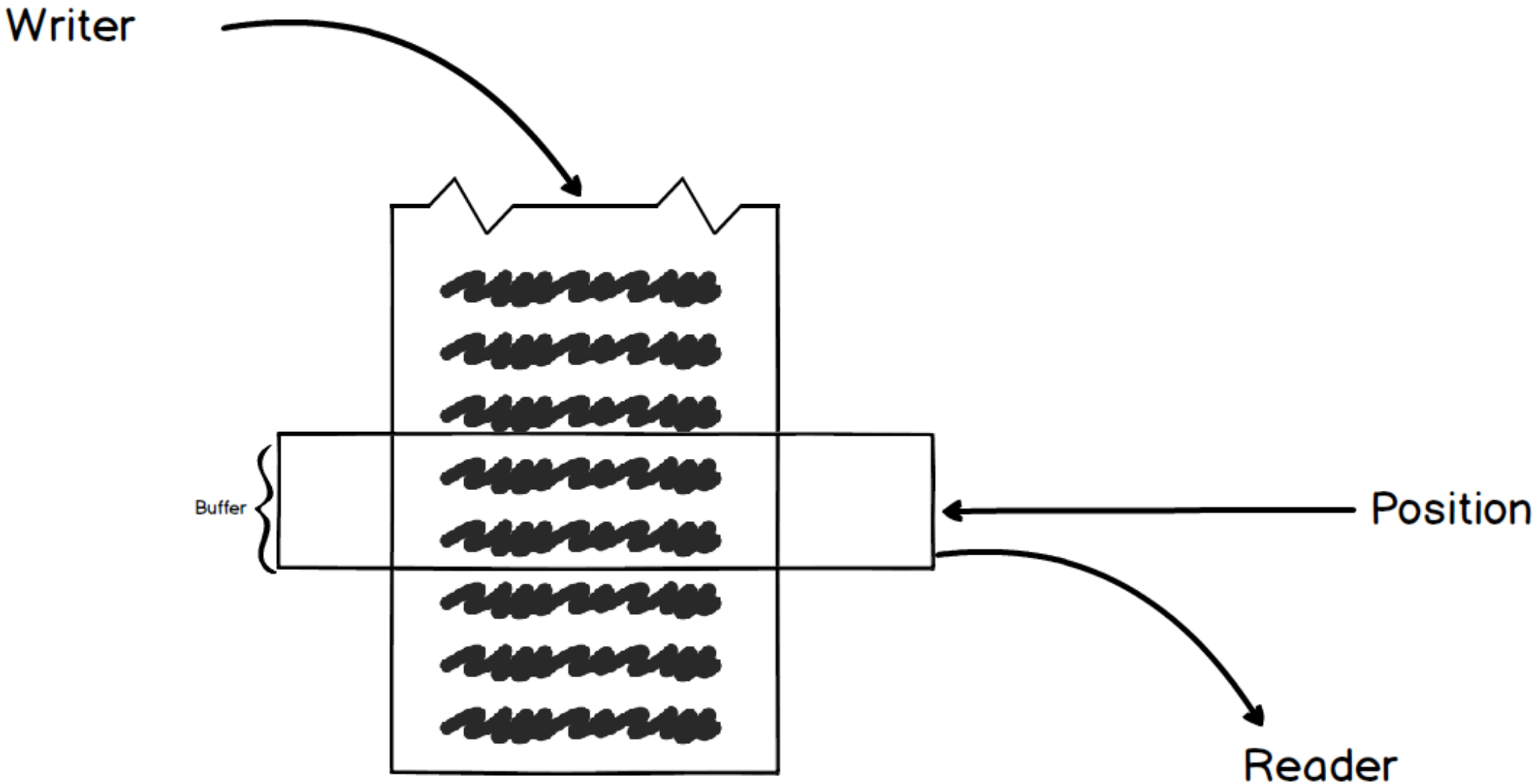
Pub/Sub

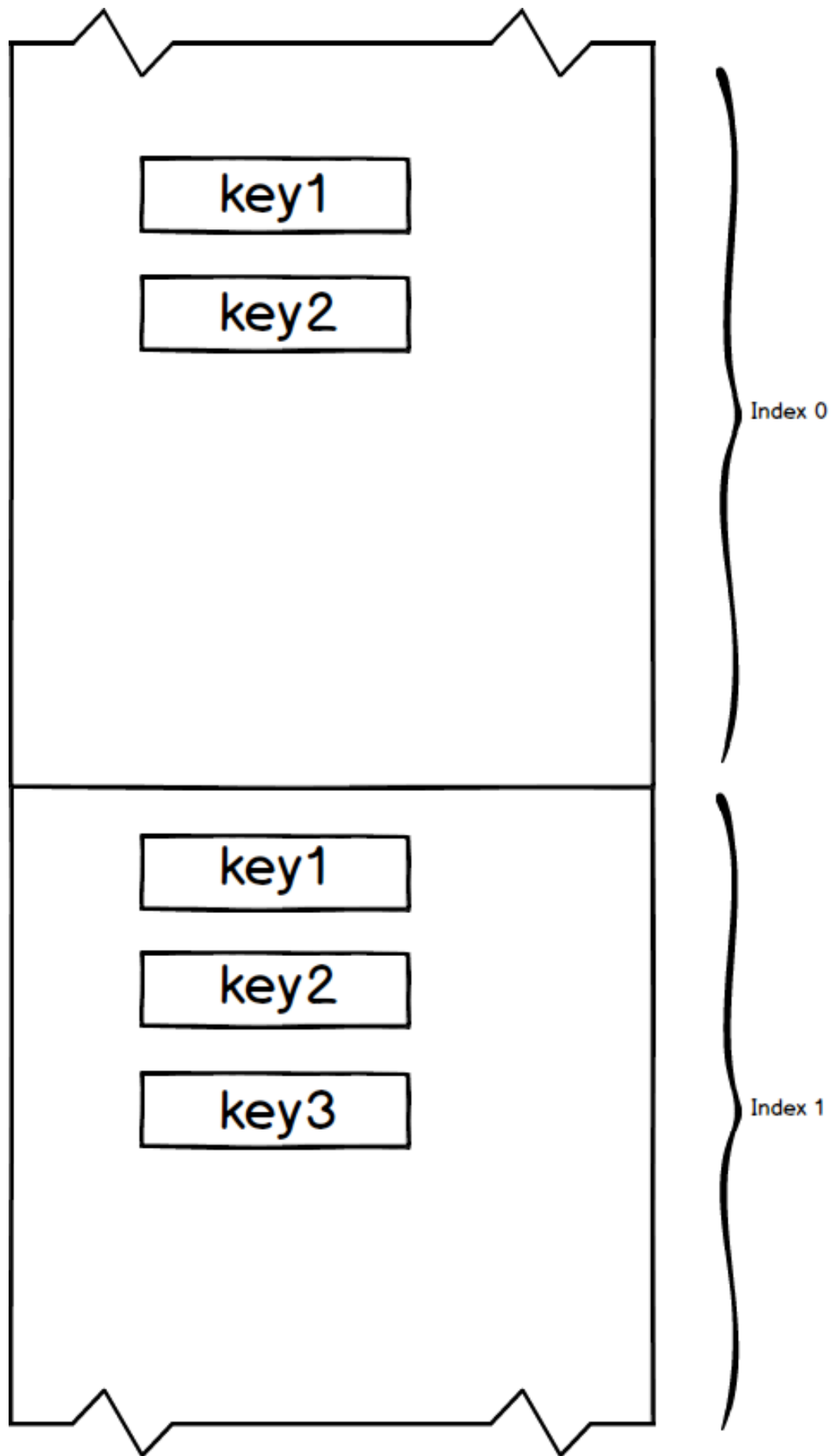
Publisher

Consument

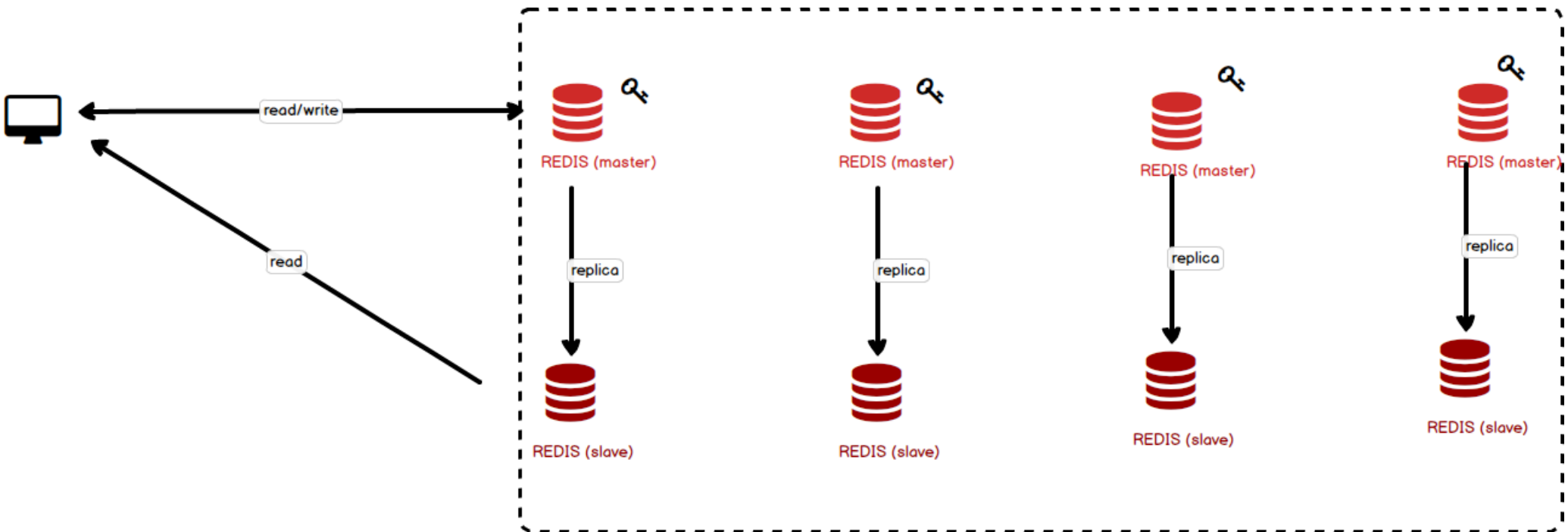


RabbitMQ / Kafka





SELECT index





John

debet 100



Jeny

debet 100



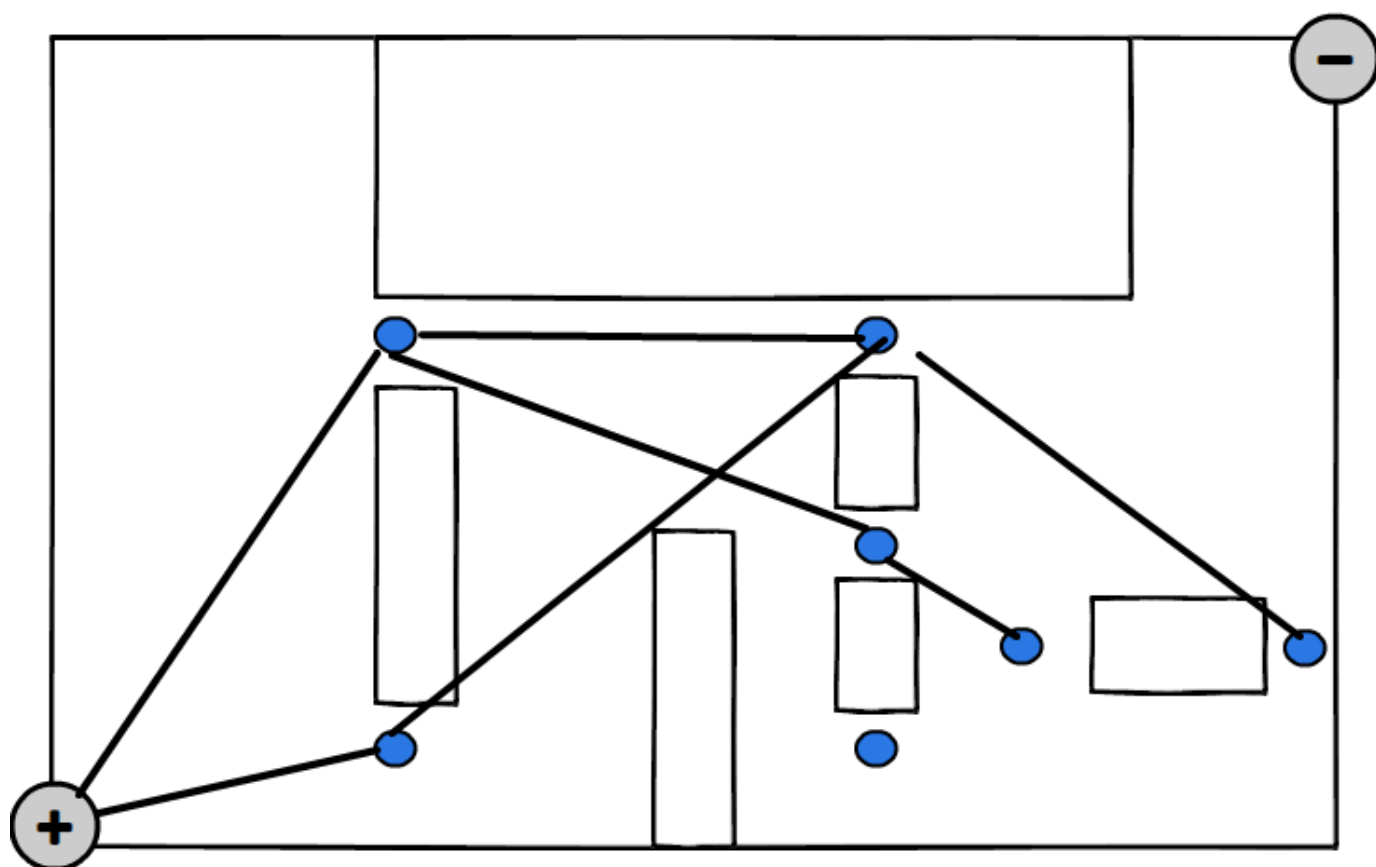
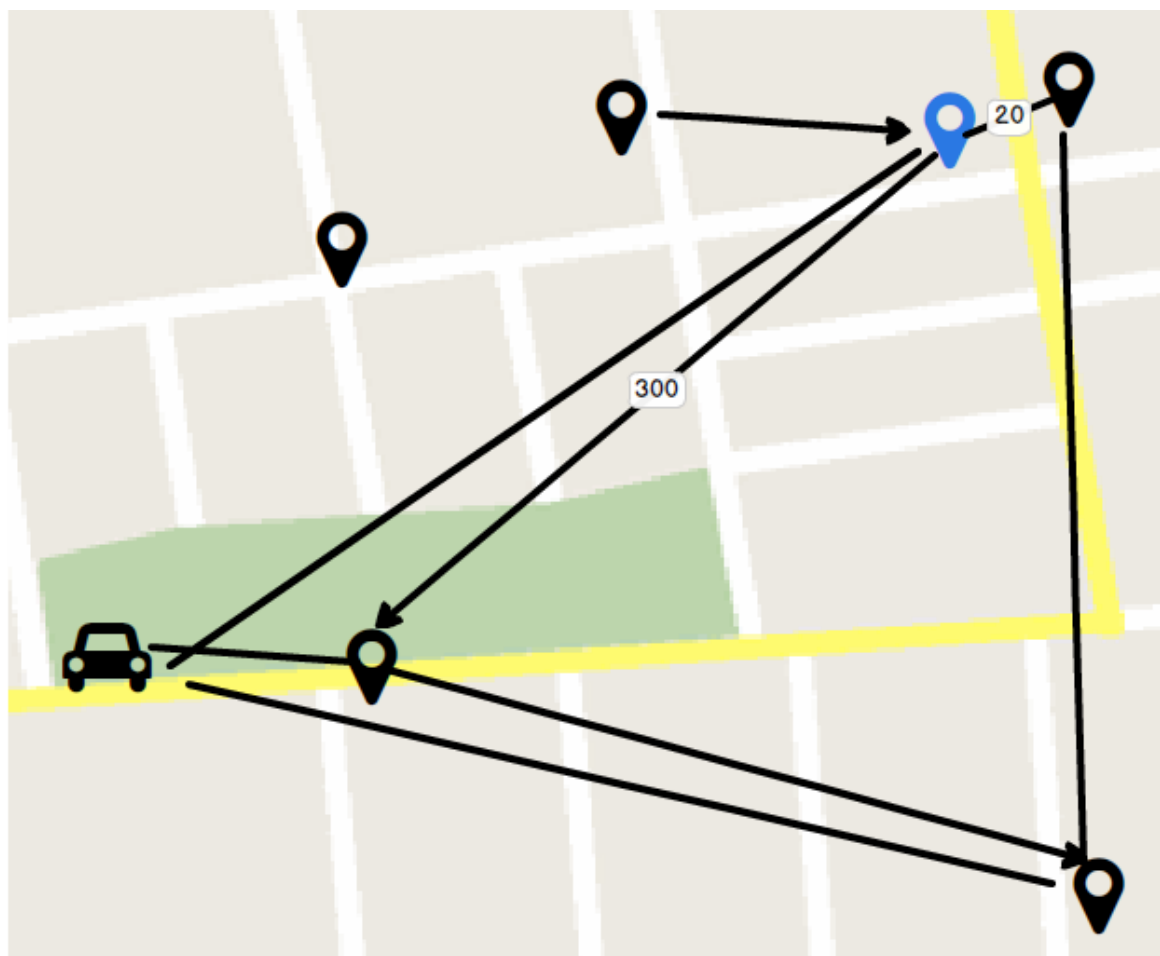
40

Redis Stack

JSON

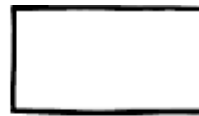
Graph

TimeSeries



$O(1)$

1



`for(int i = 0; i<n; i++) { ... }`

an



`for(int i = 0; i<n; i++) { ... }`

`for(int j = 0; j<m; j++) { ... }`

n^m

$n!$

$\log n$

