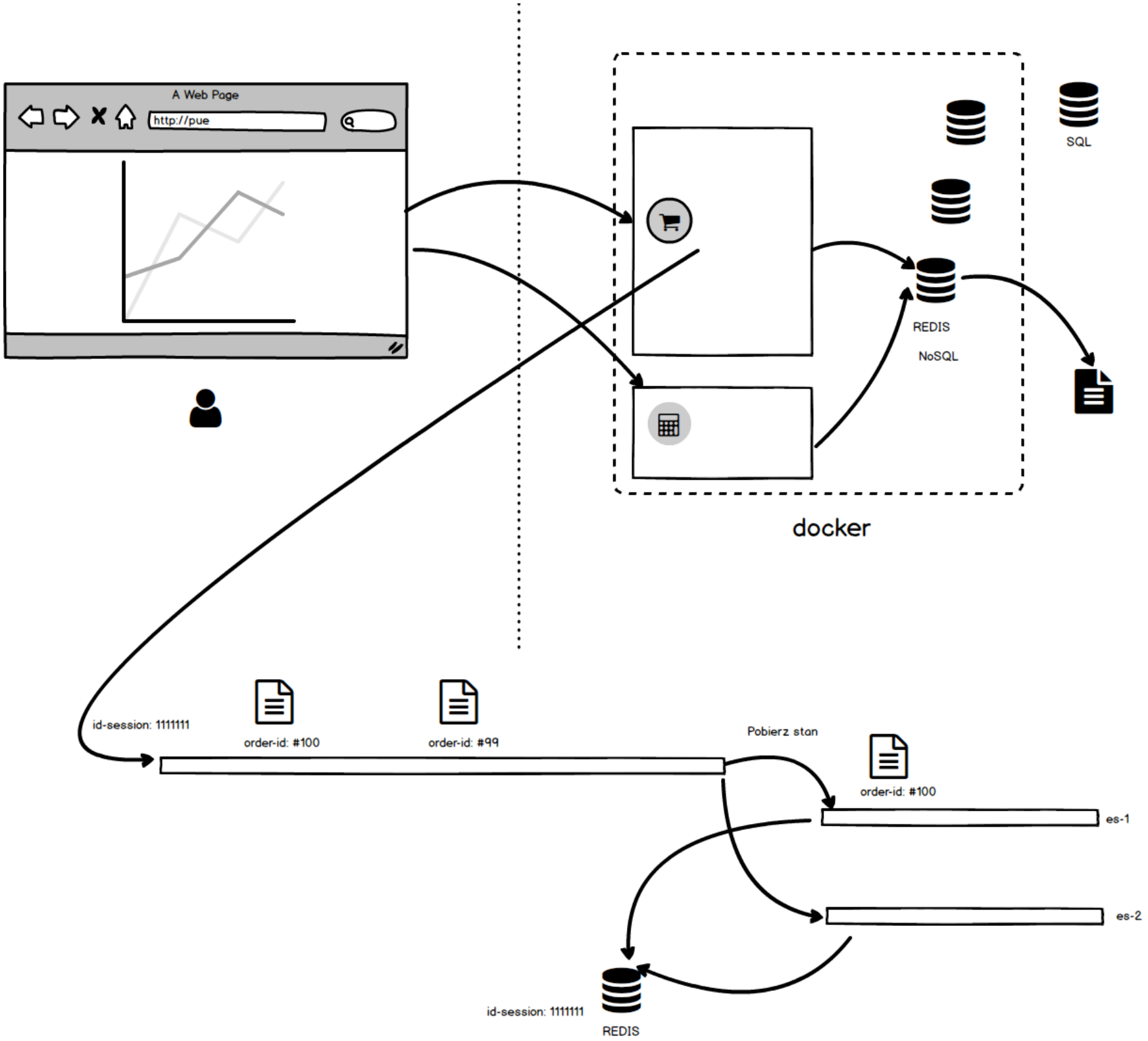
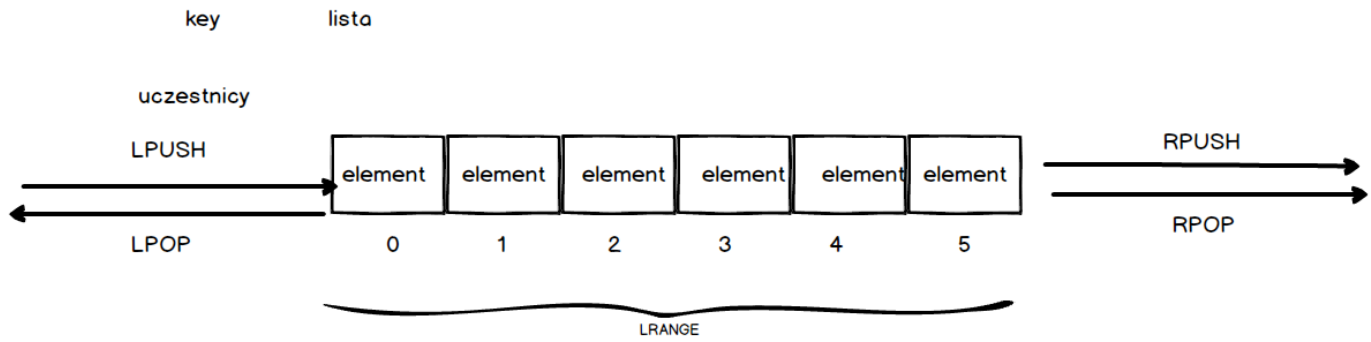
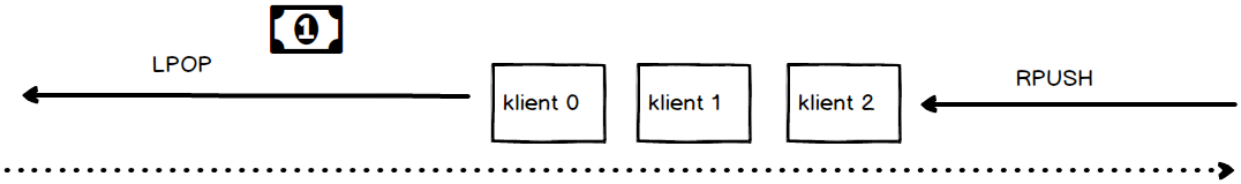

A Web Page
http://pue
SQL
REDIS
NoSQL
docker
id-session: 1111111
order-id: #100
order-id: #99
Pobierz stan
order-id: #100
es-1
es-2
id-session: 1111111
REDIS

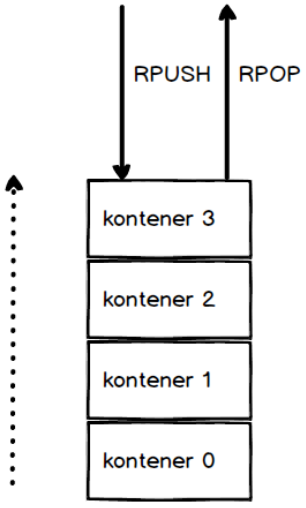

Key
Value
key-1
100
uczestnik-1
Adam
uczestnik-2
Krzysztof
uczestnik-3
Marek
trener
Marcin

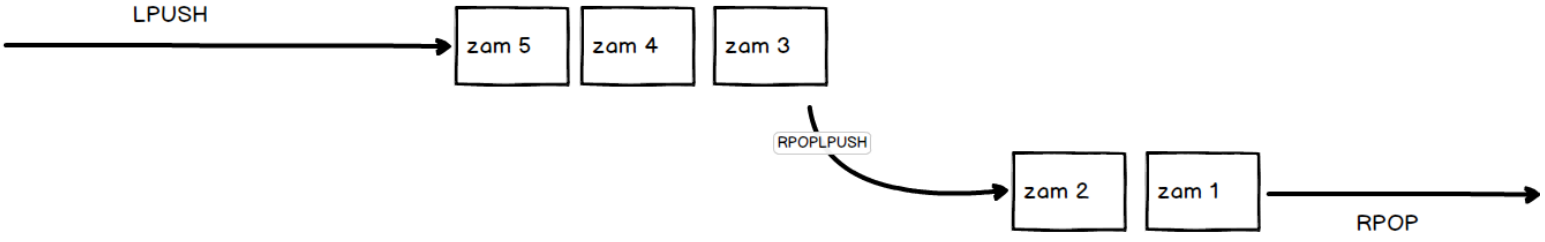


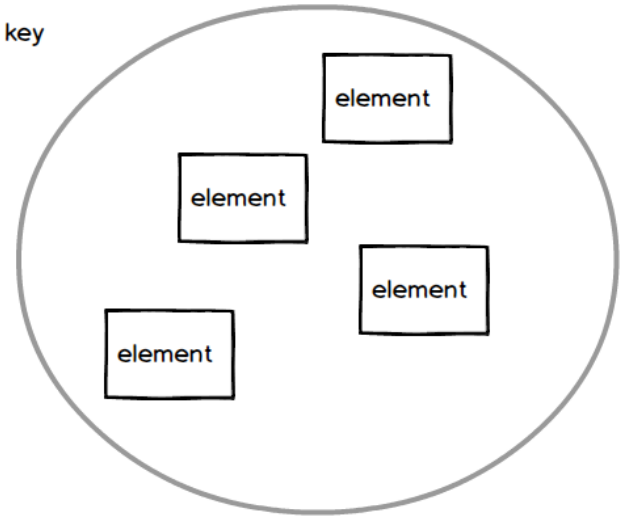
Kolejka (Queue) FIFO

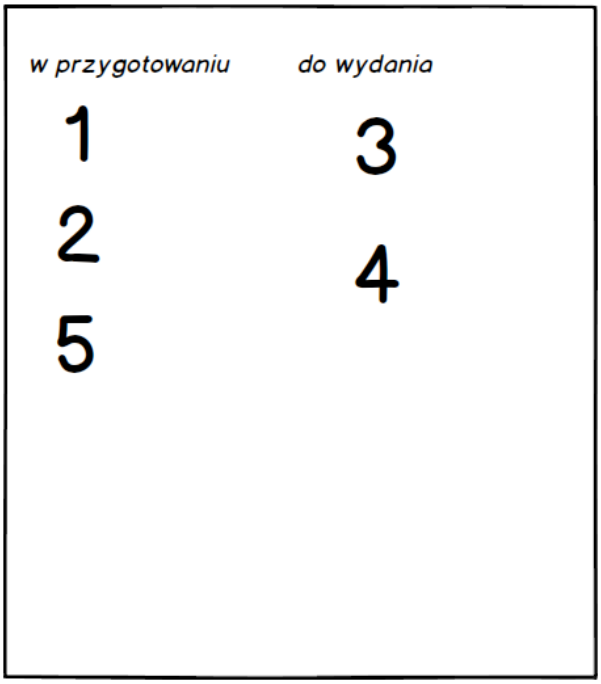


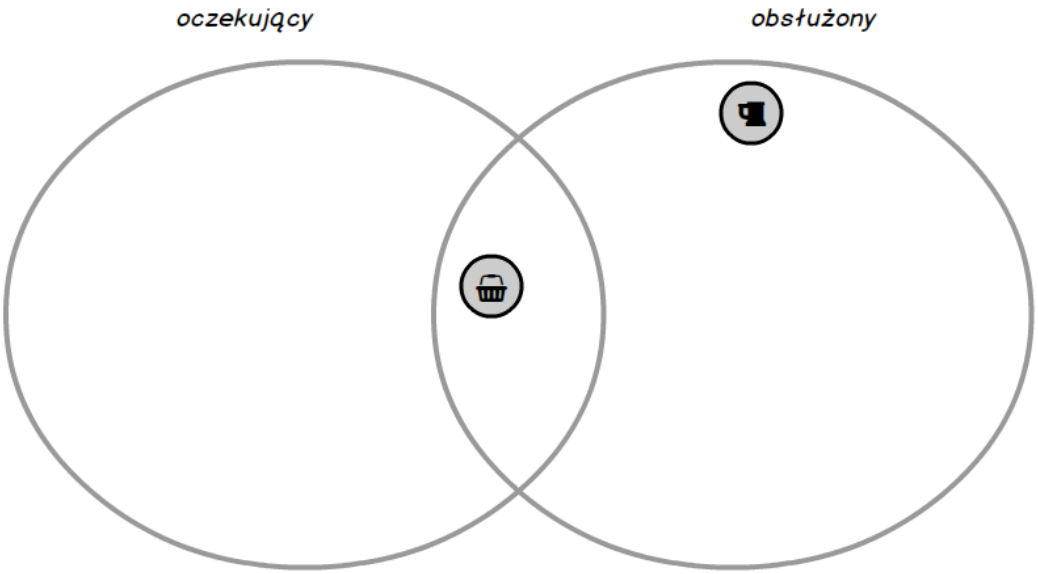
Kolejka (Stos) LIFO

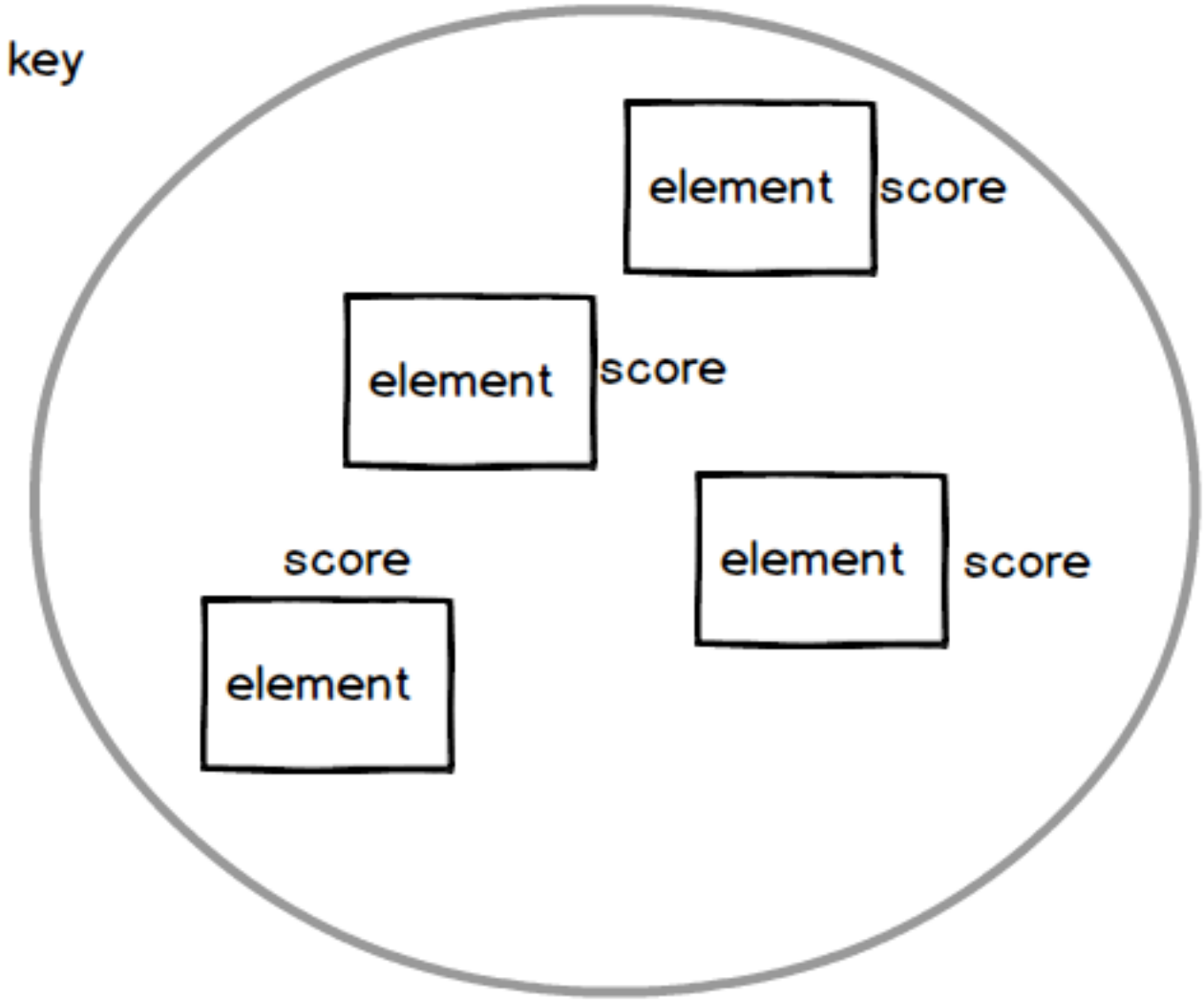


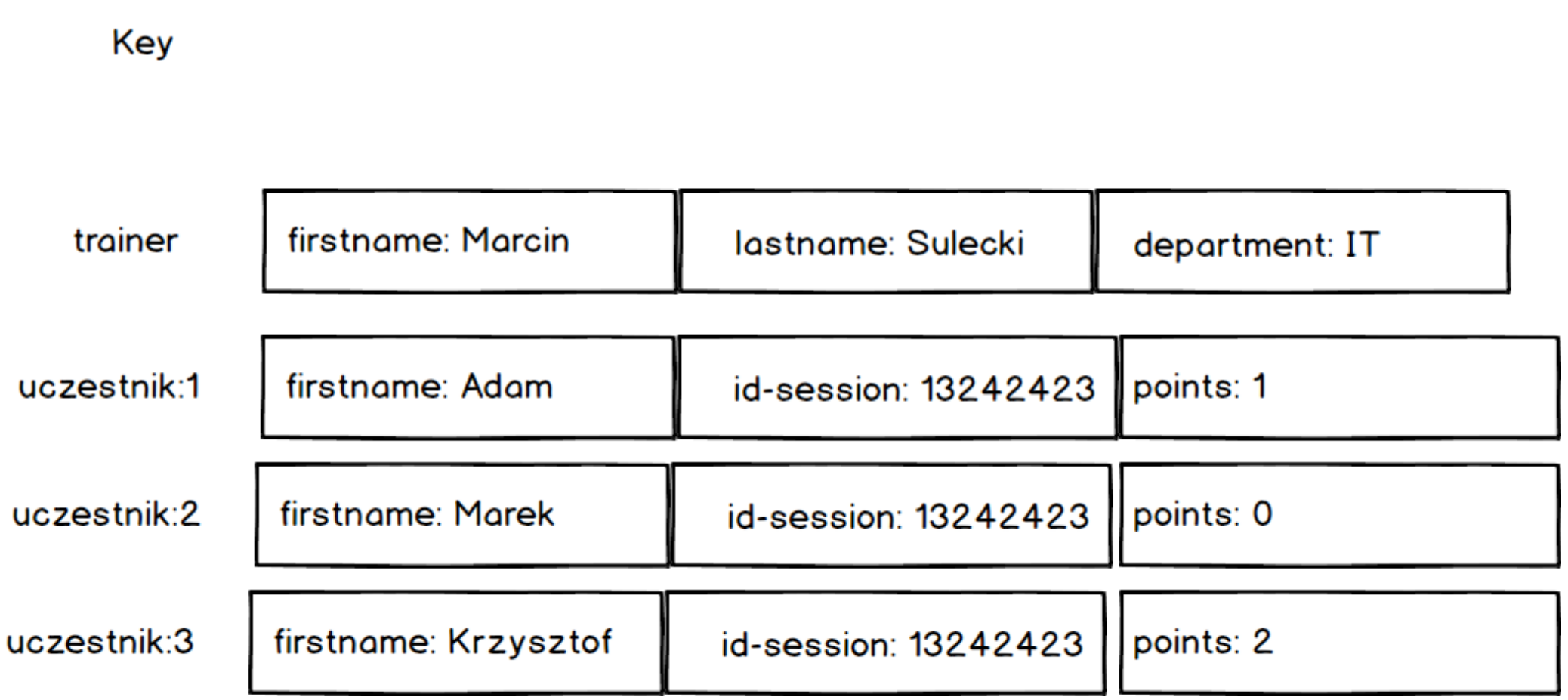


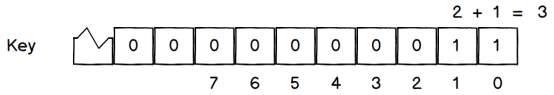

key
element
element
element
element


w przygotowaniu
do wydania
1
2
5
3
4


oczekujący
obsłużony


key
element
score
element
score
element
score
score
element


Key
trainer
firstname: Marcin
lastname: Sulecki
department: IT
uczestnik:1
firstname: Adam
id-session: 13242423
points: 1
uczestnik:2
firstname: Marek
id-session: 13242423
points: 0
uczestnik:3
firstname: Krzysztof
id-session: 13242423
points: 2



0....9 A...F

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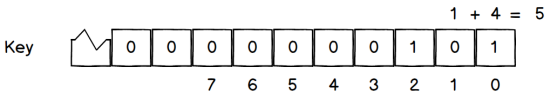
1 * 2^1 = 2



1 * 2^0 = 1

0 * 2^1 = 0

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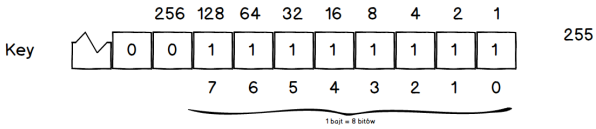
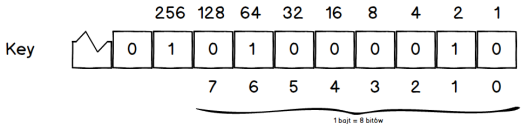
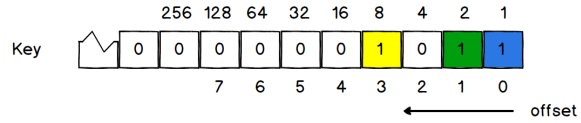


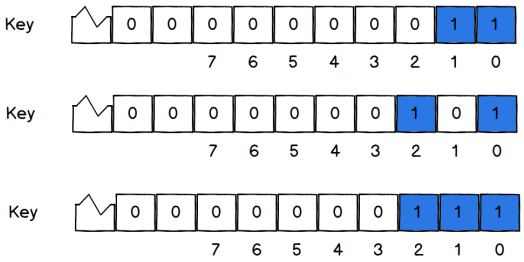
255

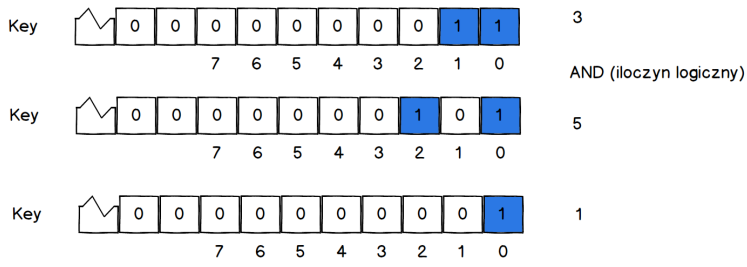
FF 01

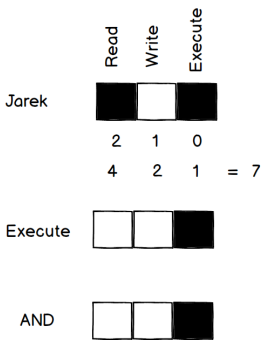


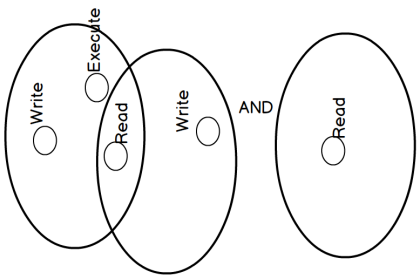
321











uzytkownicy 0 ... n

article:1

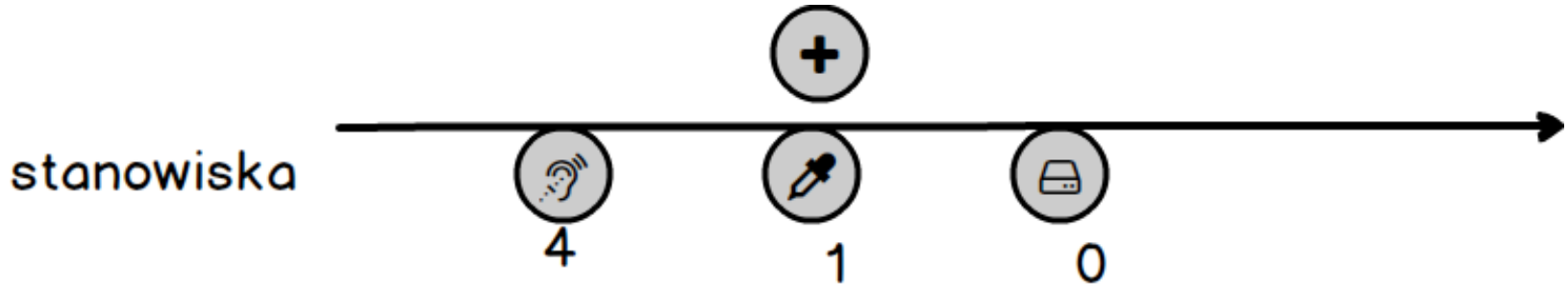
4 3 2 1 0

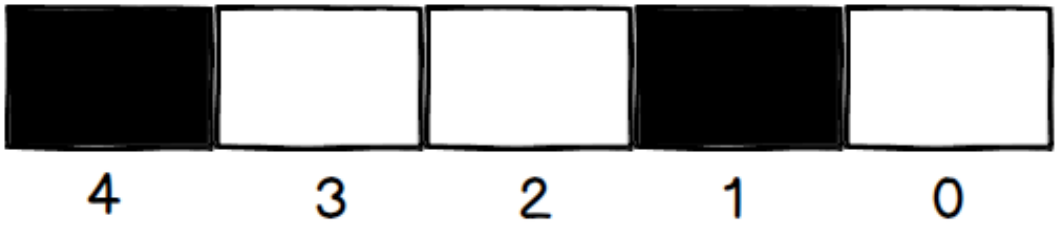
article:2

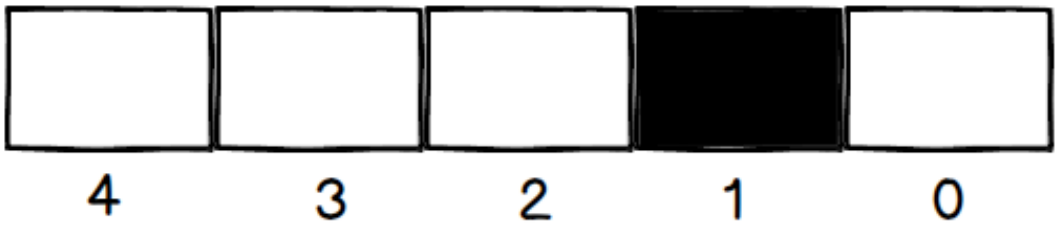
article:3

AND

readall







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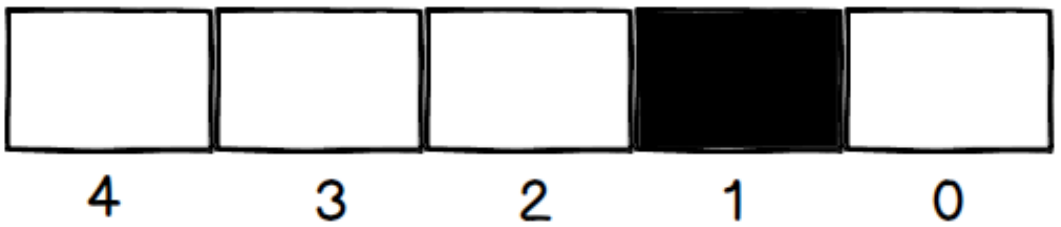
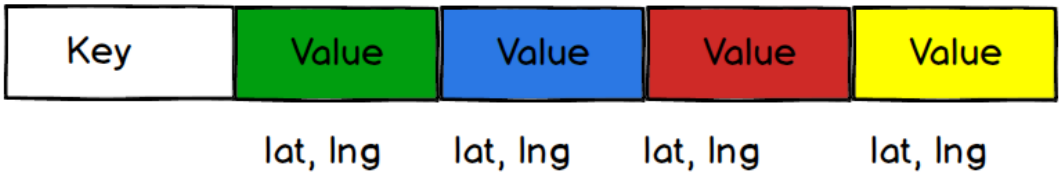
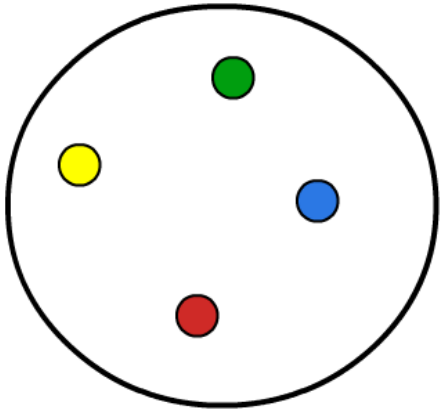
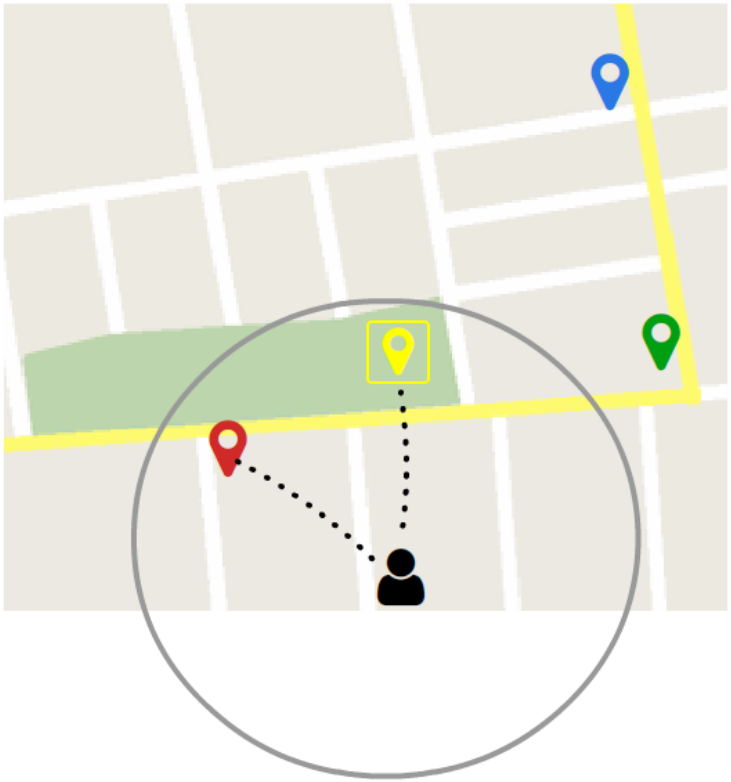
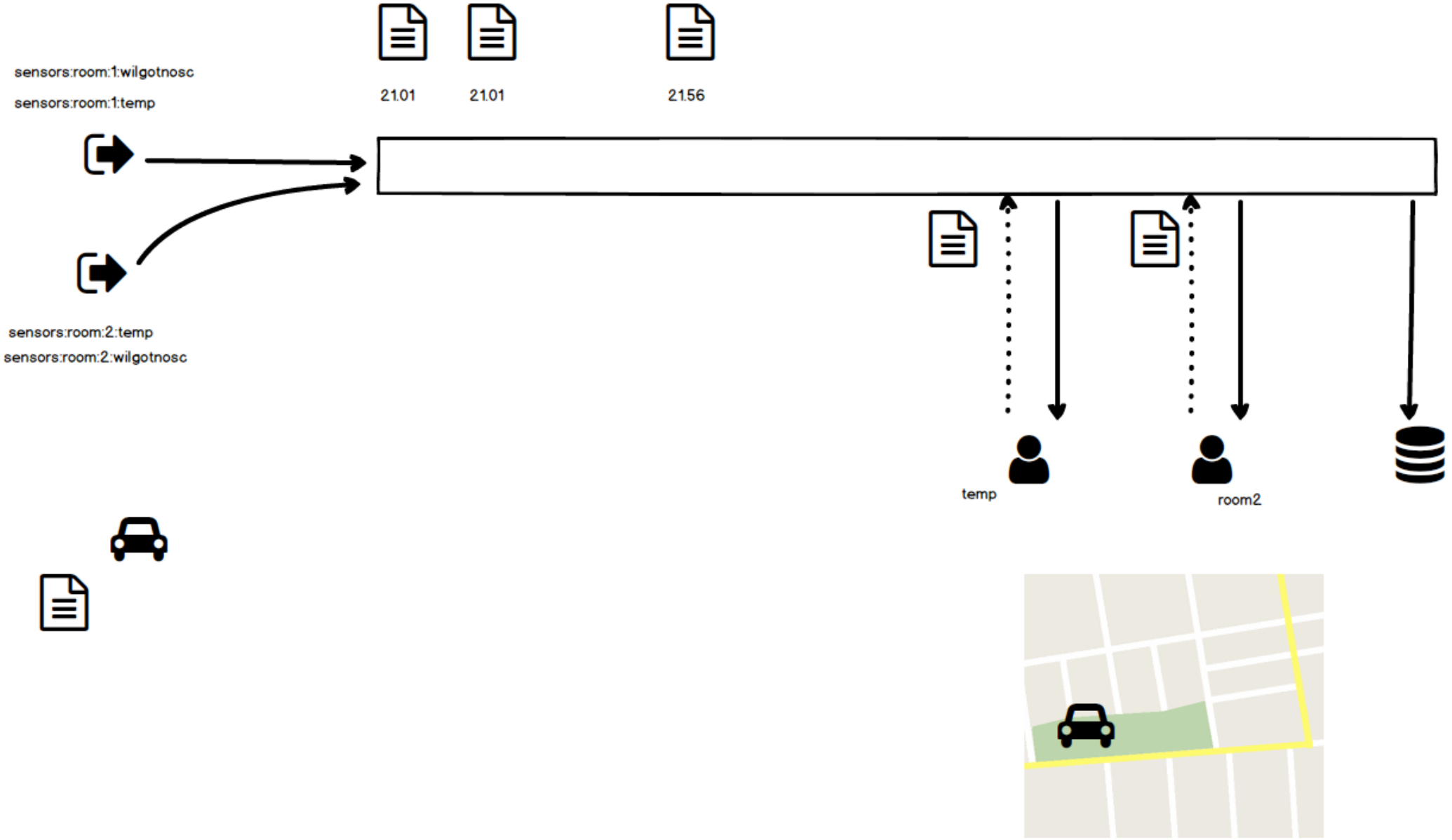


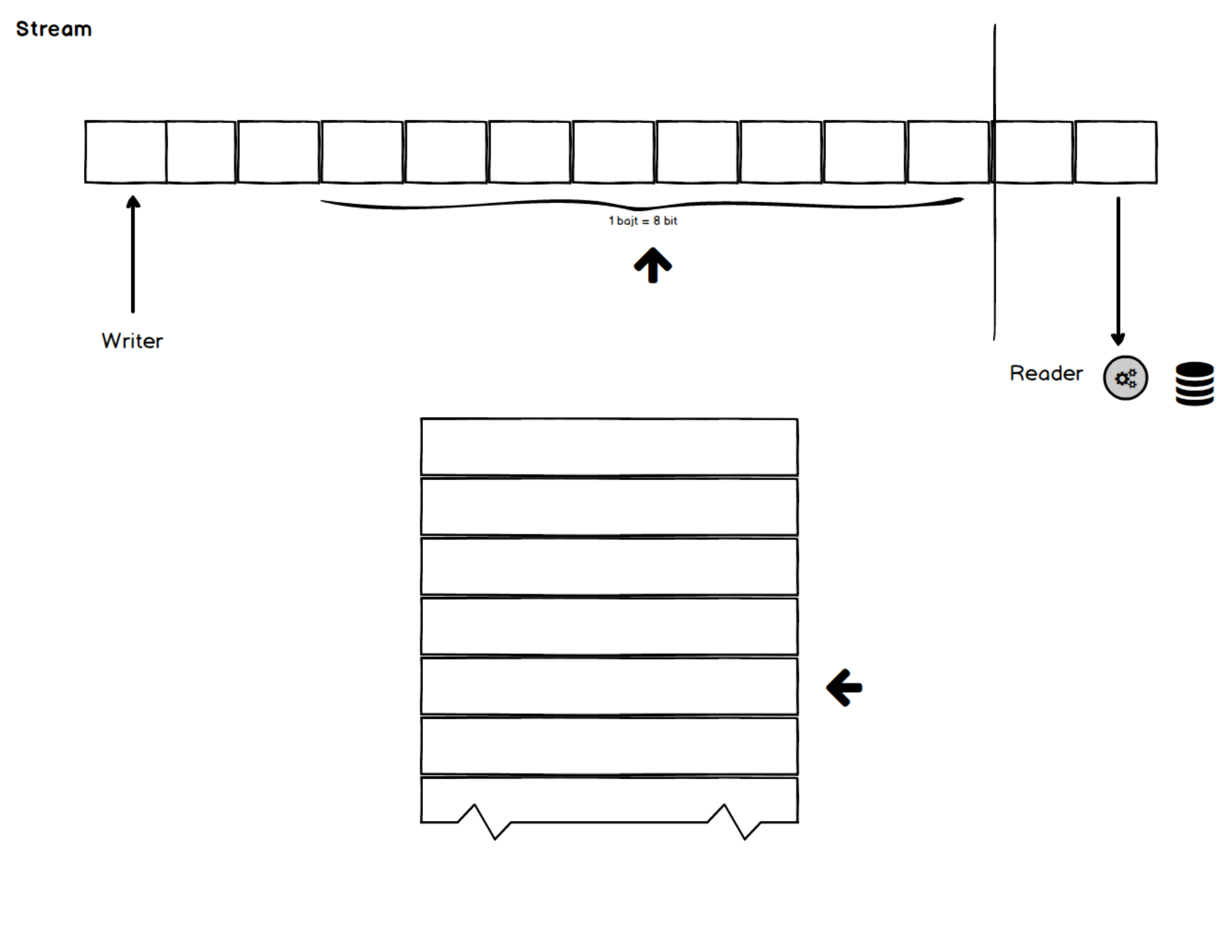
Geo

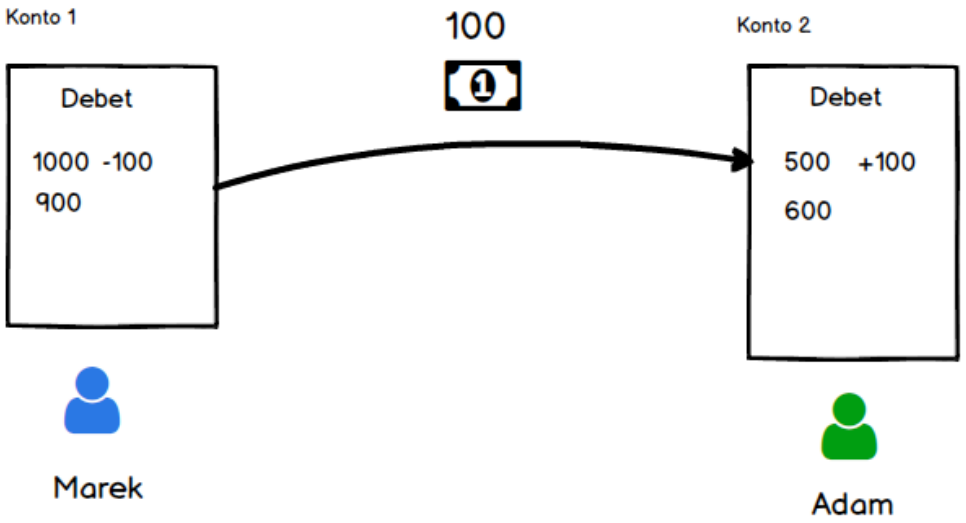







sensors:room:1:wilgotnosc
sensors:room:1:temp
21.01
21.01
21.56
sensors:room:2:temp
sensors:room:2:wilgotnosc
temp
room2


Stream
1 bajt = 8 bit
Writer
Reader



GET

SET

INCRBY

DECRBY

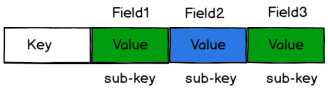
String

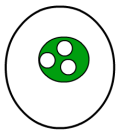
SET key value

GET key

APPEND key value

Hash





HSET key field value [field value .....]

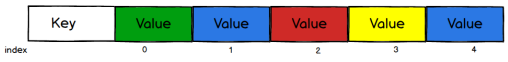
HGET key field

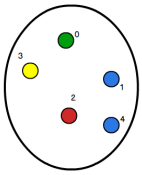
HGETALL key

HKEYS key

HVALS key

List





LPUSH key value / RPUSH key value

LPOP key value / RPOP key value

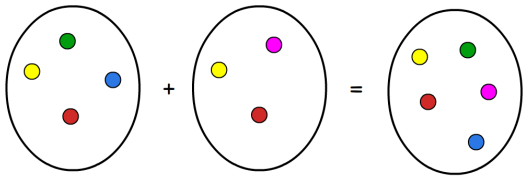
Set

SADD key value

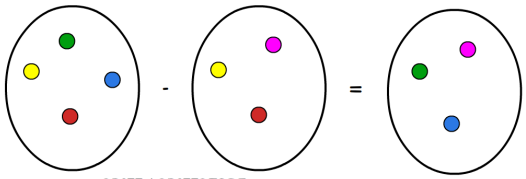
SREM key

SPOP

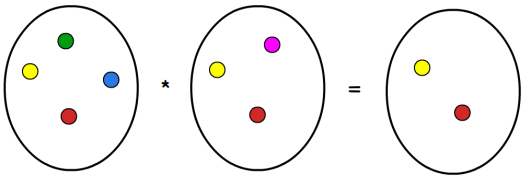
SRANDMEMBER



SUNION / SUNIONSTORE

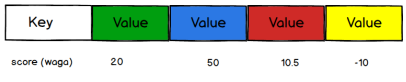


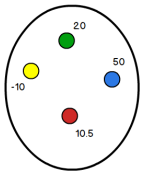
SDIFF / SDIFFSTORE



SINTER / SINTERSTORE

Sorted Set



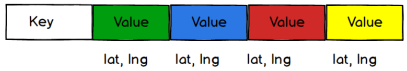


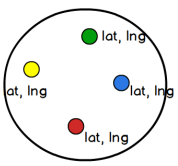
ZADD key score value

ZREM key

ZRANGEBYSCORE

Geo



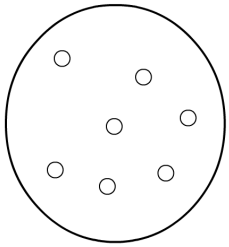


O (1)

O (logN)

O (N)

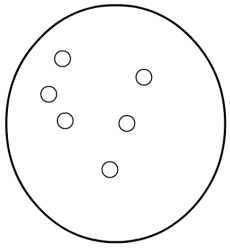
```
for(int i=0; i<lenght; i++)
   akumalotor = akumulator + element[i]
```

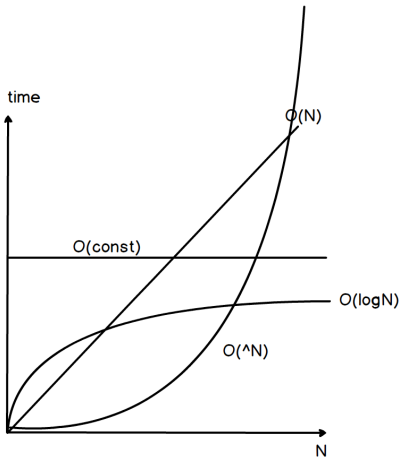


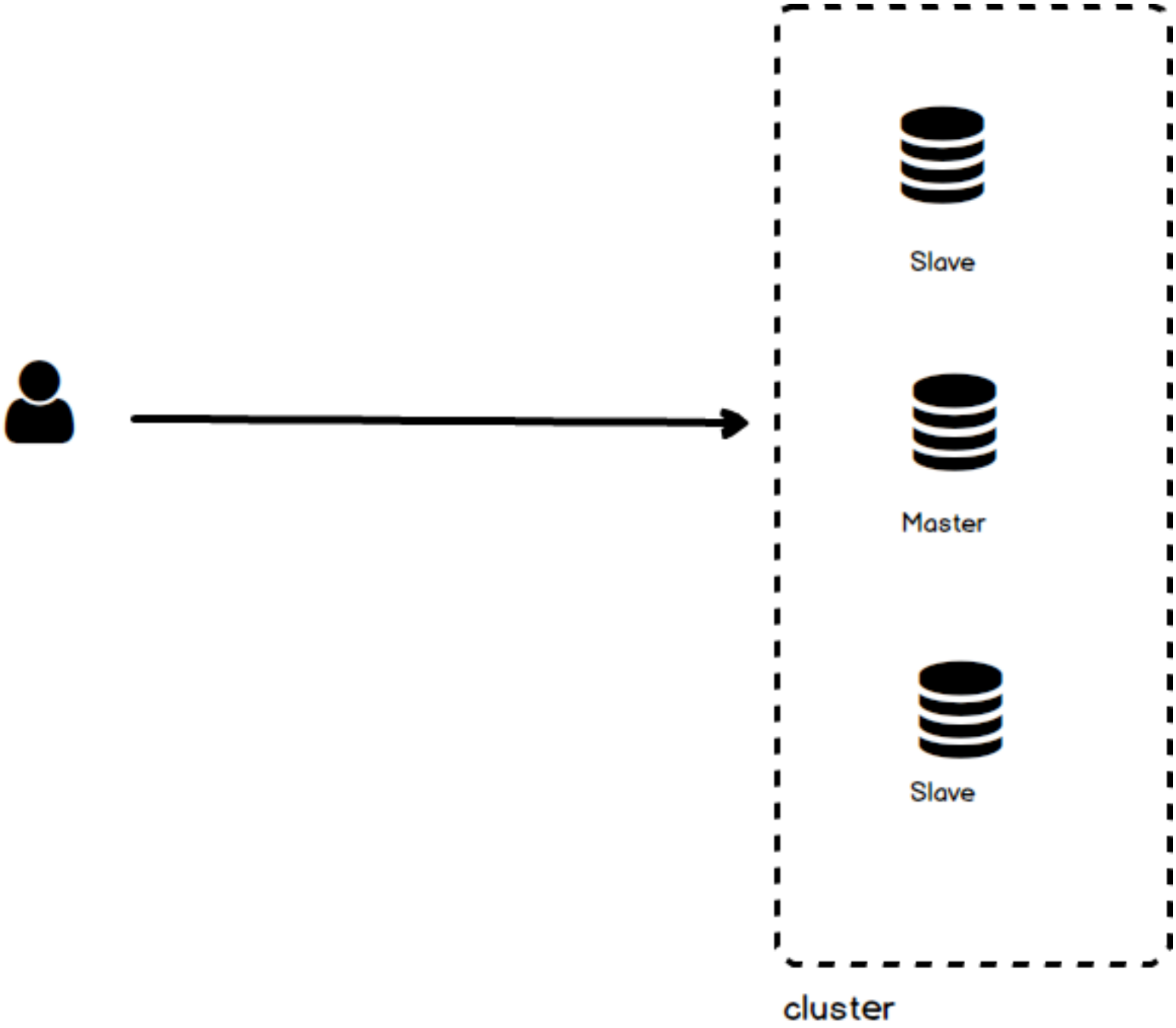
O (N^2)

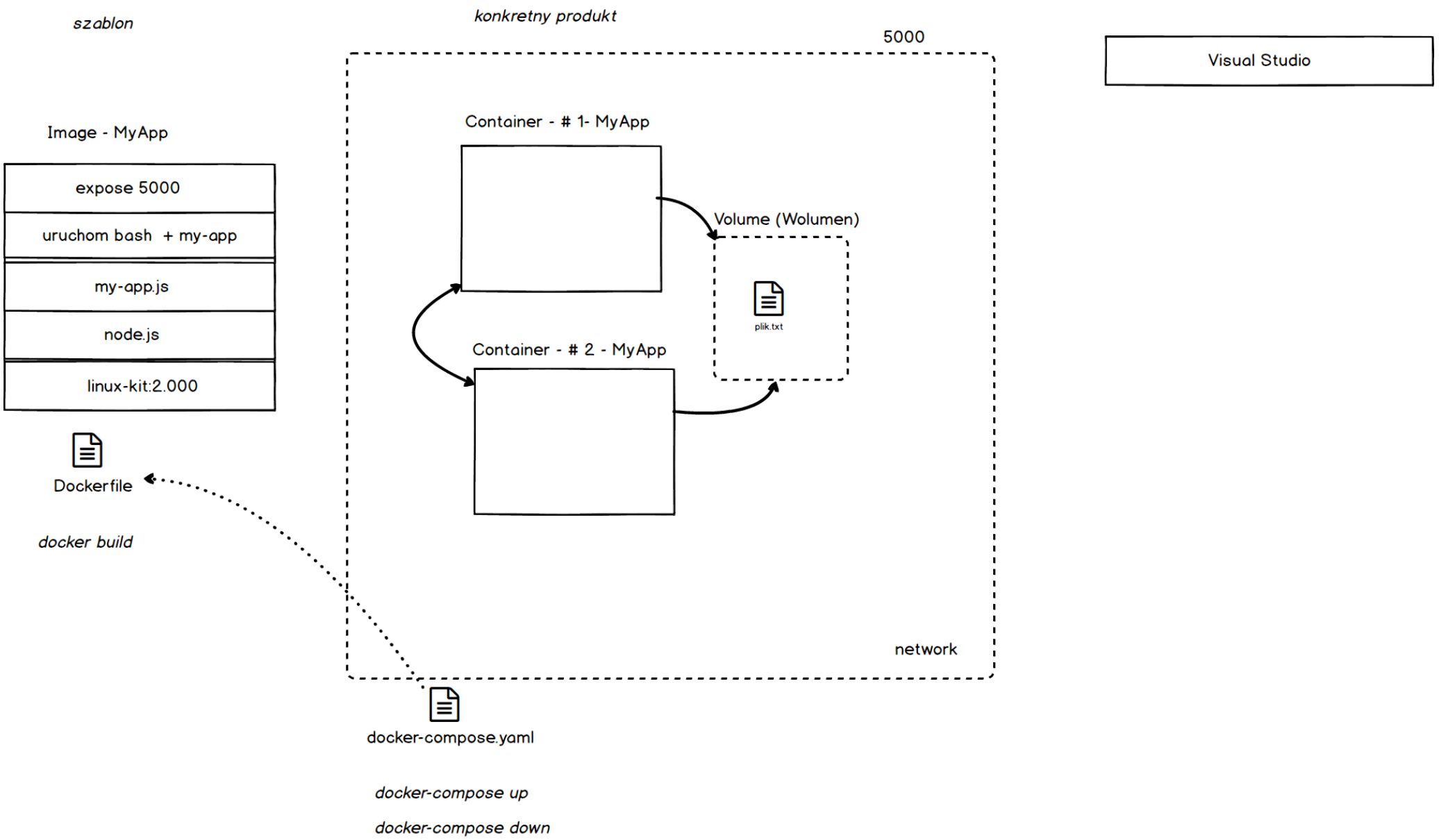
```
for(int i=0; i<lenght; i++)
    for(int j=0; j<lenght; j++)
        akumalotor = akumulator + element[i,j]
```

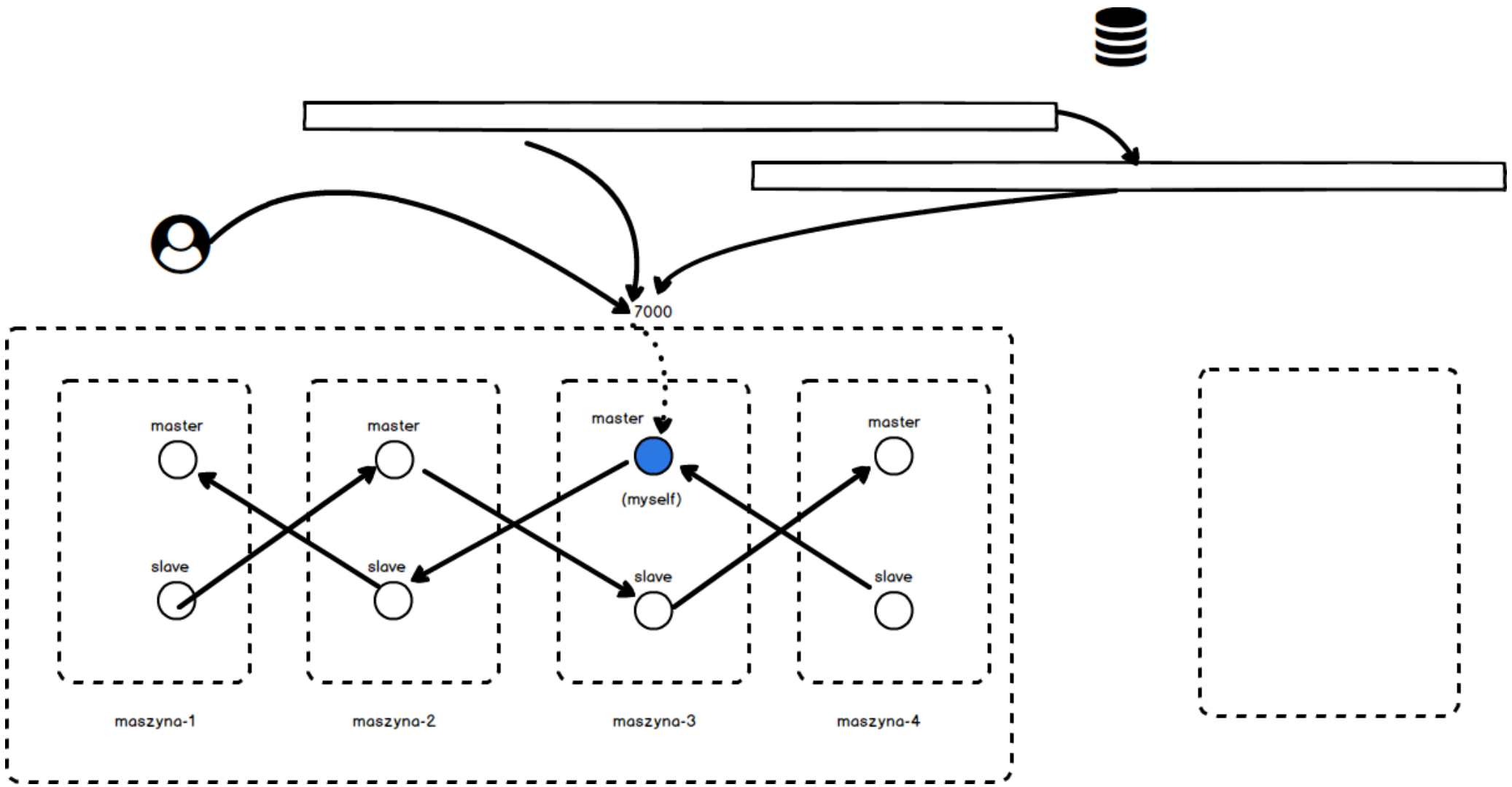
O (^N)






Slave
Master
Slave
cluster


szablon
konkretny produkt
5000
Visual Studio
Image - MyApp
expose 5000
uruchom bash + my-app
my-app.js
node.js
linux-kit:2.000
Container - # 1- MyApp
Volume (Wolumen)
plik.txt
Container - # 2 - MyApp
Dockerfile
docker build
network
docker-compose.yaml
docker-compose up
docker-compose down


7000
master
master
master
(myself)
master
slave
slave
slave
slave
maszyna-1
maszyna-2
maszyna-3
maszyna-4