Input for Mapper 0

apple lemon
mango salmon
wheat apple

Input for Mapper 1

barley salmon
apple orange
carrot rice

Input for Mapper 2

mango carrot
lemon carrot
apple rice tuna

```
class Mapper
    method Initialize
        H = new AssociativeArray
    method Map(docid a; doc d)
        for all term t in doc d do
            H{t} = H{t} + 1.   //count number of each t
    method Close
        for all term t in H do
            Emit(term t; count H{t})
```

Output for Mapper 0

(apple , 2)

(lemon , 1)

(mango , 1)

(salmon , 1)

(wheat , 1)

Output for Mapper 1

(barley , 1)

(salmon , 1)

(apple , 1)

(orange , 1)

(carrot , 1)

(rice , 1)

Output for Mapper 2

(mango , 1)

(carrot , 2)

(lemon , 1)

(apple , 1)

(rice , 1)

(tuna , 1)

Input for reducers

Key < k for Reducer 0

(apple , [2,1,1])
(barley , [1])
(carrot , [1,2])

others for Reducer 1

(lemon , [1,1])
(mango , [1,1])
(orange , [1])

Key > r for Reducer 2

(rice , [1,1])
(salmon , [1,1])
(tuna , [1])
(wheat , [1])