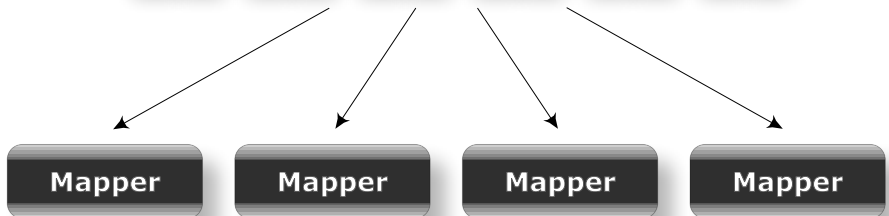


A a   B b   C c   D d   E e   F f



X 1   Y 2

Z 3   Z 6

X 5   Z 2

Y 7   Z 8

Combiner

Combiner

Combiner

Combiner

X 1   Y 2

Z 9

X 5   Z 2

Y 7   Z 8

Partitioner

Partitioner

Partitioner

Partitioner

Shuffle and Sort

X 1   5

Y 2   7

Z 2   9   8

Reducer

Reducer

Reducer

1   a

2   b

3   c