Shuffle

Mapping

Reduce

Input Split

Input

Output

DOG CAT CAT
PIG CAT BIRD
DOG BIRD PIG

DOG CAT CAT

PIG CAT BIRD

DOG BIRD PIG

DOG: 1
CAT: 1
CAT: 1

PIG: 1
CAT: 1
BIRD: 1

DOG: 1
BIRD: 1
PIG: 1

DOG: 1
DOG: 1

CAT: 1
CAT: 1
CAT: 1

PIG: 1
PIG: 1

BIRD: 1
BIRD: 1

DOG: 2
CAT: 3

PIG: 2
BIRD: 2

DOG: 2
CAT: 3
PIG: 2
BIRD: 2