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wordcount_mapper.py
#!/usr/bin/python
import sys
for line in sys.stdin:
       words = line.split() #default split() arument is space
       for word in words:
               print ('{0}\t{1}'.format(word,1))
wordcount_reducer.py
#!/usr/bin/python
import sys
curr_word = None
curr\_count = 0
# Process each key-value pair from the mapper
for line in sys.stdin:
 # Get the key and value from the current line
 word, count = line.split('\t')
 # Convert the count to an int
 count = int(count)
 # If the current word is the same as the previous word,
 # increment its count, otherwise print the words count
 # to stdout
 if word == curr_word:
   curr_count += count
 else:
   # Write word and its number of occurrences as a key-value
   # pair to stdout
   if curr word:
       print ('{0}\t{1}'.format(curr_word, curr_count))
   curr_word = word
   curr_count = count
# Output the count for the last word
if curr_word == word:
       print ('{0}\t{1}'.format(curr_word, curr_count))
Command
echo "big data is big" | sort | ./wordcount_mapper.py | ./wordcount_reducer.py
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