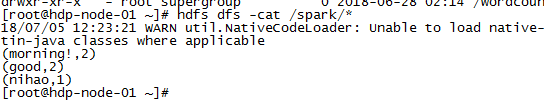
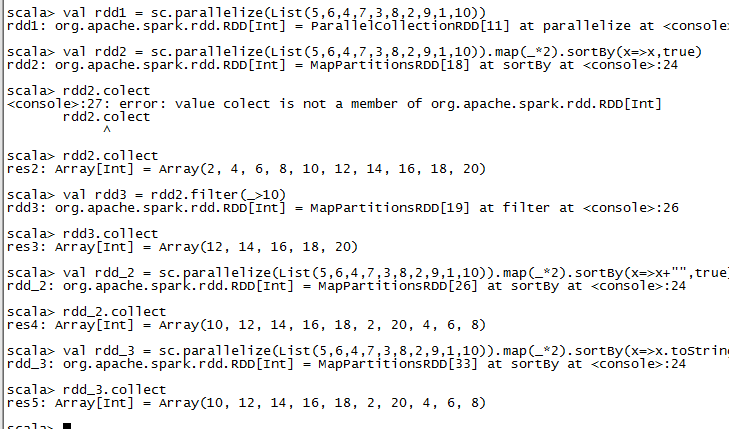
(1)

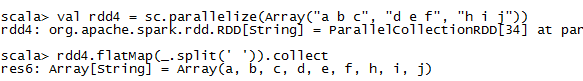




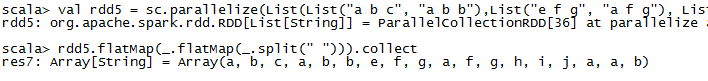
(2)



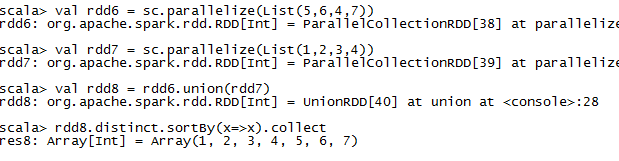
(3)



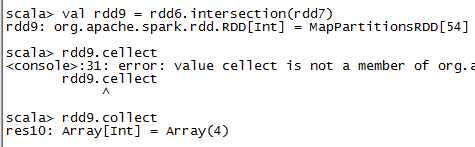
(4)



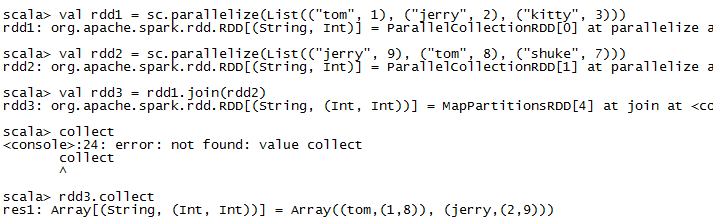
(5)

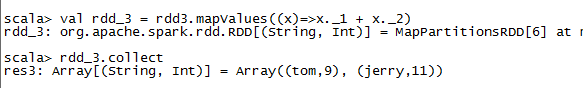


(6)

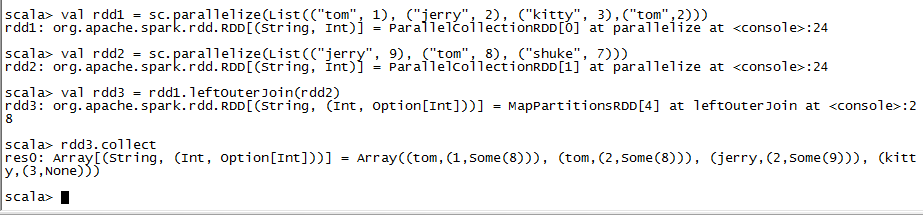


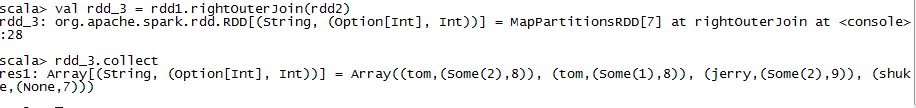
(7)

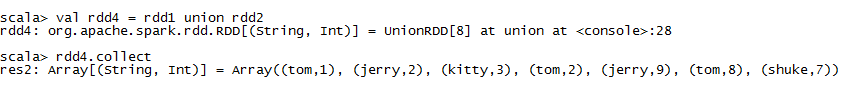




(8)

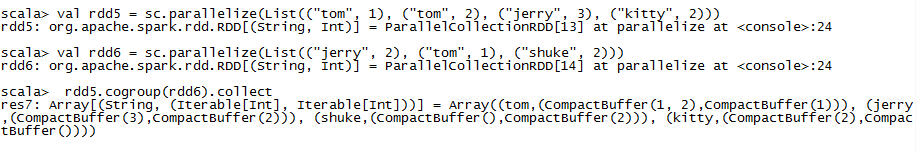




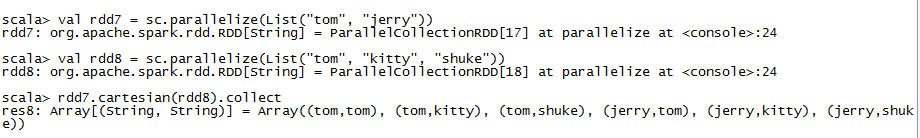




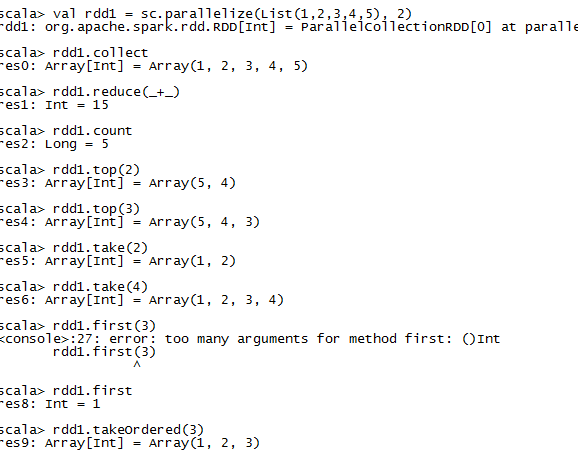
(9)



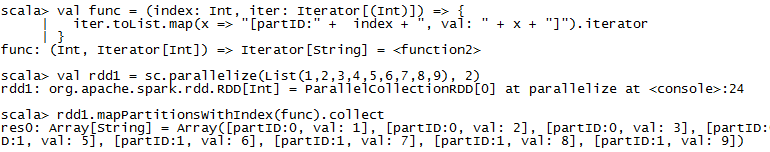
(10)



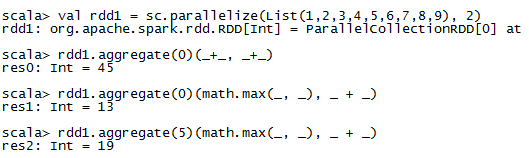
(11)

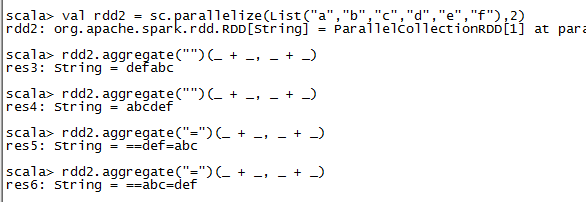


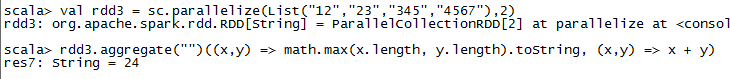
1. mapPartitionsWithIndex

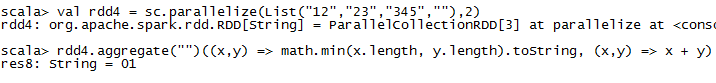


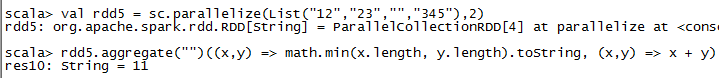
(13)aggregate



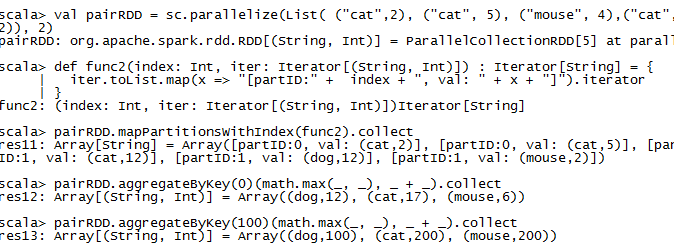




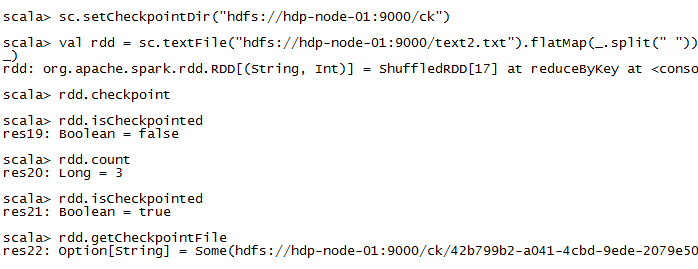




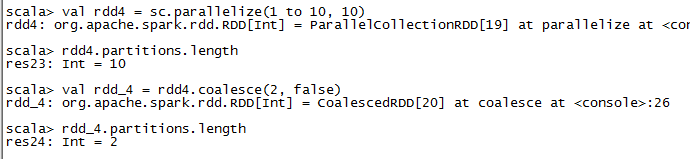
(14)aggregateByKey



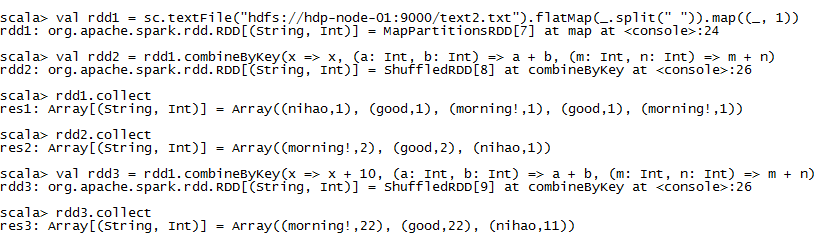
(14)checkpoint

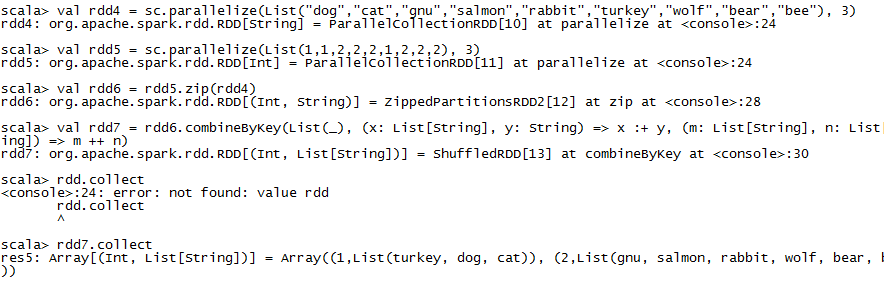


1. coalesce

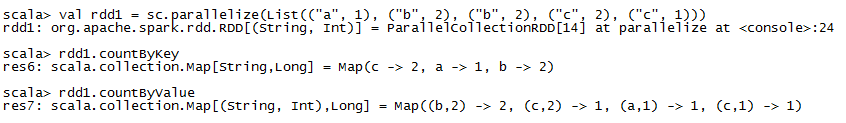


(16)combineByKey

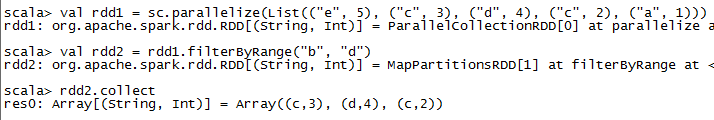




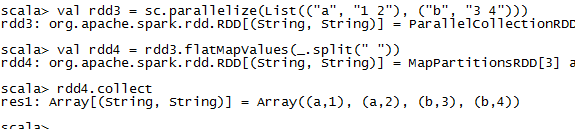
(17)countByKey



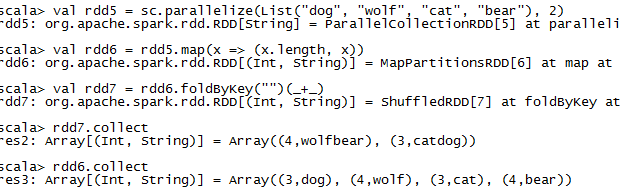
(18)filterByRange



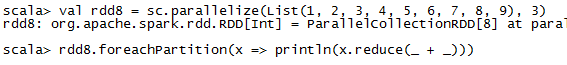
1. flatMapValues



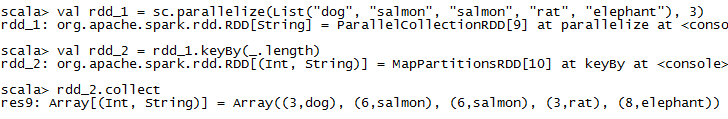
1. foldByKey



1. foreachPartition



(22)keyBy



(23)keys values

