

Week2

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09/23/2015

Exercise 2.3.1

Question

Design MapReduce algorithms to take a very large file of integers and produce as output:

- (a) The largest integer.
- (b) The average of all the integers.
- (c) The same set of integers, but with each integer appearing only once.
- (d) The count of the number of distinct integers in the input.

Exercise 2.3.2

Question

Our formulation of matrix-vector multiplication assumed that the matrix M was square. Generalize the algorithm to the case where M is an r -by- c matrix for some number of rows r and columns c .