Worksheet #8: Analysis of Map Reduce Example

Name:

Netid:

Analyze the total WORK and CPL for the Map reduce example in the previous slide, under the following assumptions:

- Assume that each Map step has WORK = number of input words, and CPL=1
 - For example, WORK=3 and CPL=1 for Map 1
- Assume that each Reduce step has WORK = number of input word-count pairs, and CPL = log2(number of occcurences for input word with largest count)
 - For example, WORK=5 for Reduce 1, and CPL = log2(4) = 2

