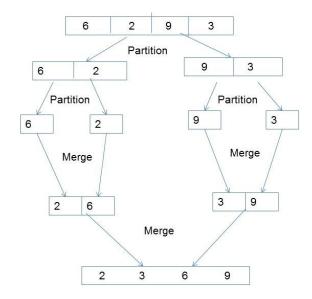
15-110 Recitation 11

04/02/2020

Covering: concurrency, map reduce, pipelining,

Reminder: HW5 due Friday, April 9

Problem 1: mergesort concurrency



What steps can be done in parallel?

Problem 2: mapReduce

Suppose we make a mapReduce function to count the number of files that have an even number of even numbers. Define the mapper, collector, reducer function.

Your own approach:

Mapper	
Collector	
Reducer	

Class approach:

Mapper	
Collector	

Reducer	
lem 3: laundry pipel	ining
Similar to the laund	ry problem in lecture: say we have a system where we need to wash, dry, iron, and andry. Each stage takes 30 minutes, and we have access to 4 washers, 4 dryers, 4
Laundry without pi	pelining drawing space :
Laundry with pipeli	ining drawing space :
Based on your diagr	
Without any pipeli	ining, how many loads of laundry could you do in 3 hours?