Announcements Project 3 PartA due Thursday night CSE 332: Parallel Sorting Winter 2014

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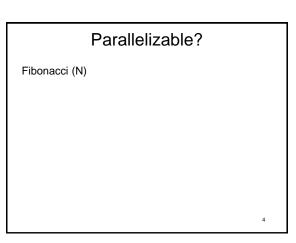
Recap

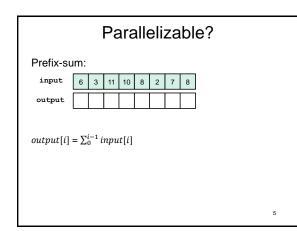
Last week

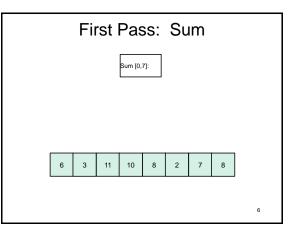
- simple parallel programs
- common patterns: map, reduce
- analysis tools (work, span, parallelism)
- Amdahl's Law

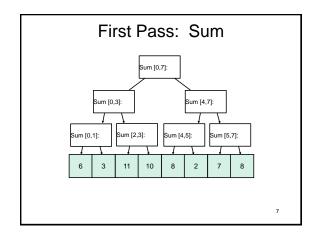
Now

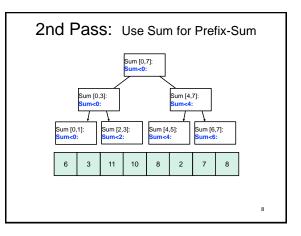
- parallel quicksort, merge sort
- useful building blocks: prefix, pack

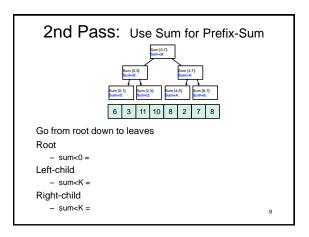


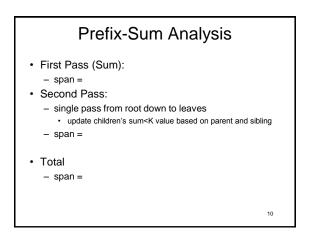


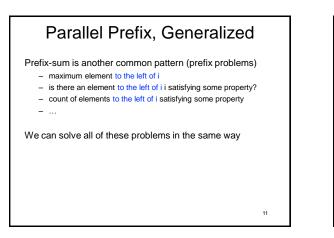


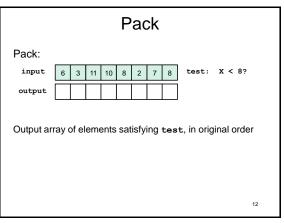


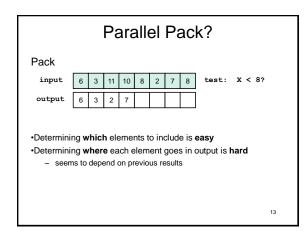




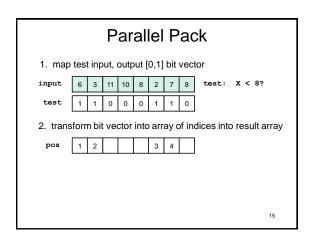


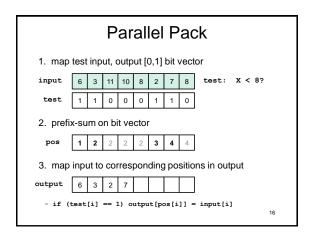






Parallel Pack											
1. map test input, output [0,1] bit vector											
input	6	3	11	10	8	2	7	8	test:	X < 8?	
test	1	1	0	0	0	1	1	0			
											14





Parallel Pack Analysis								
 Parallel Pack map: sum-prefix: map: 	O() span O() span O() span O() span							
• Total: O() span							
		17						

