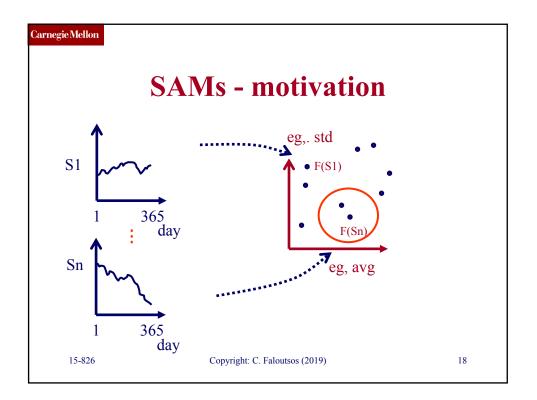
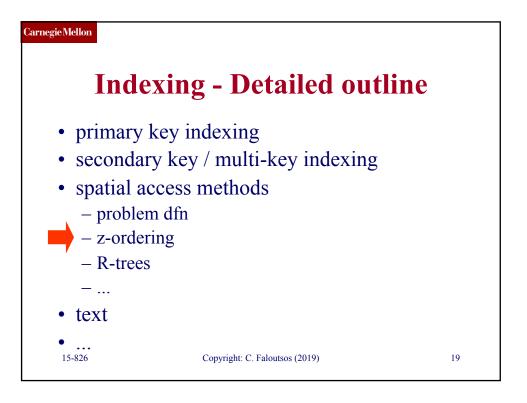
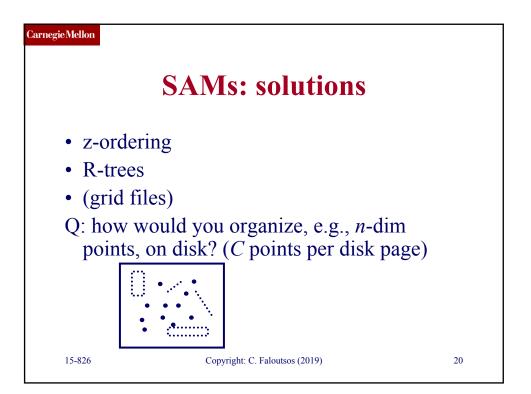


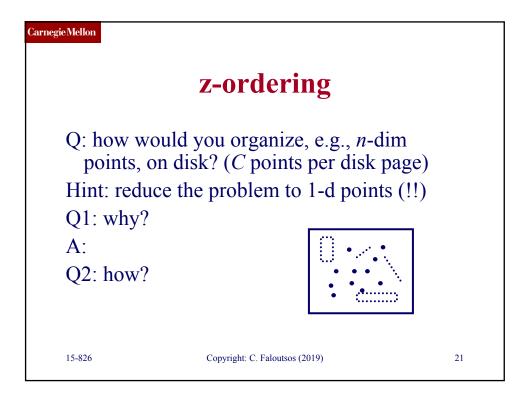
Carnegie Mellon SAMs - motivation			
	CAD/CAM	find elements too close to each other	
15-826	Copyright: C. Faloutsos (2019)	16	

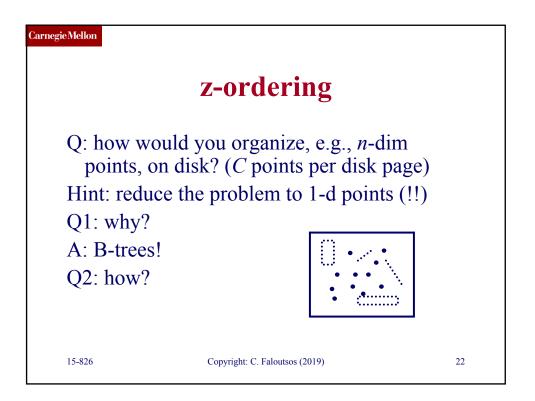
Carnegie Mellon SAMs - motivation			
	CAD/CAM		
15-826	Copyright: C. Faloutsos (2019)	17	

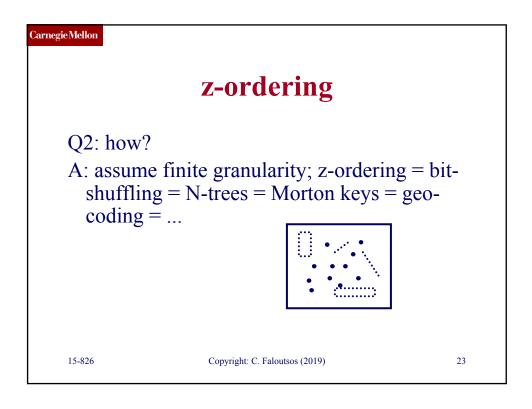


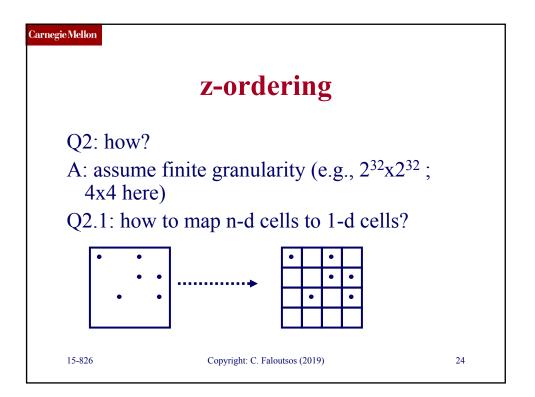


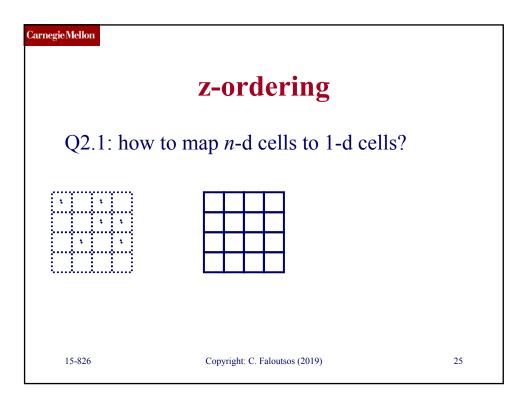


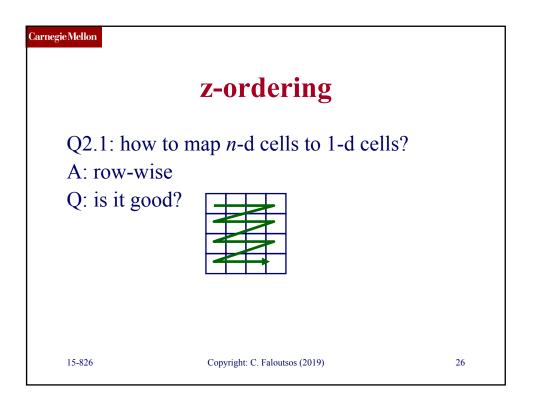


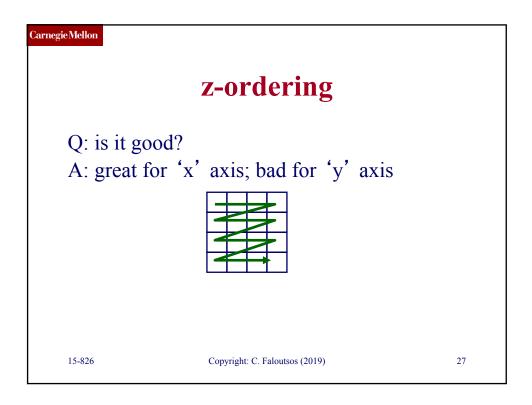


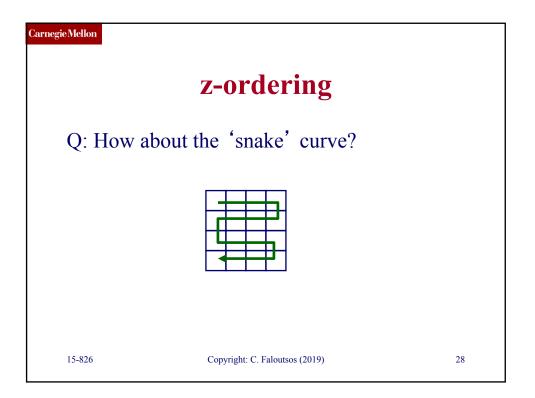


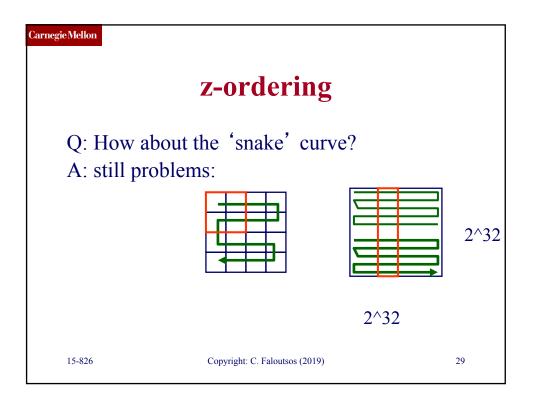


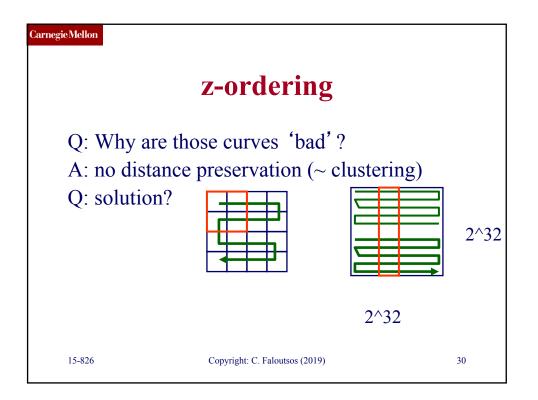


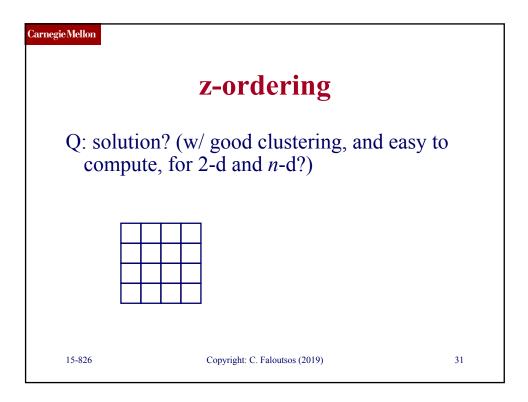


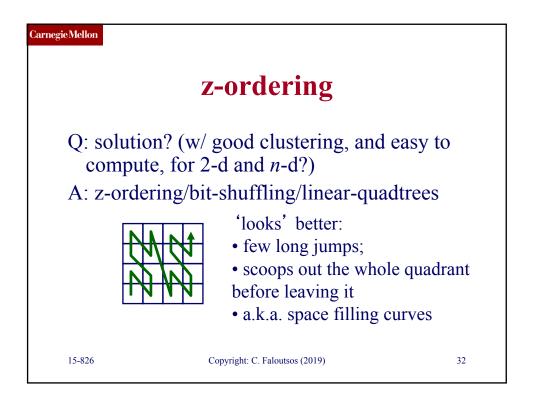


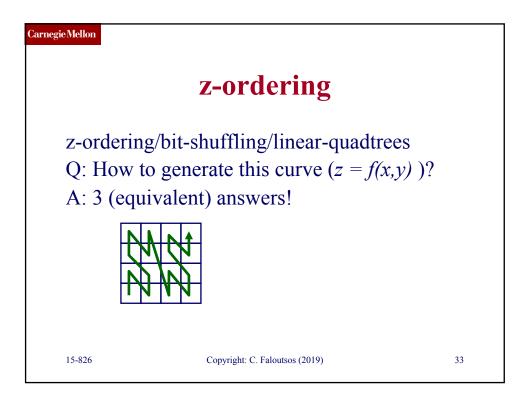


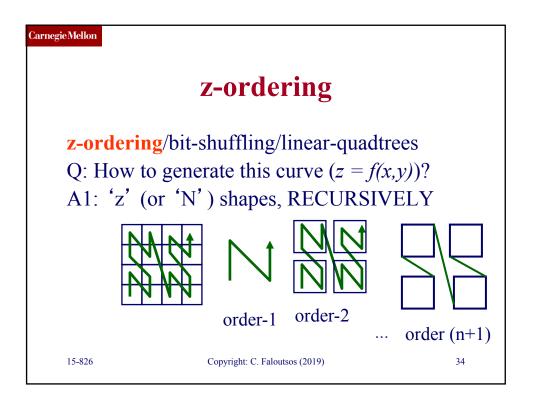


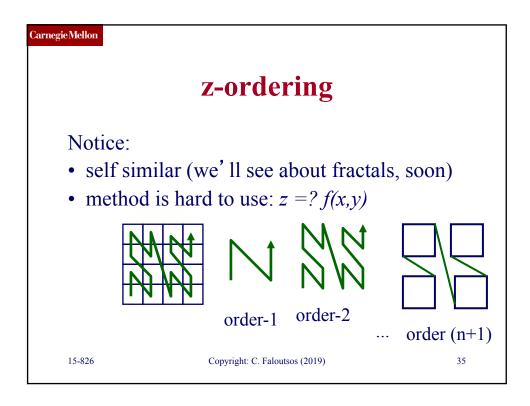


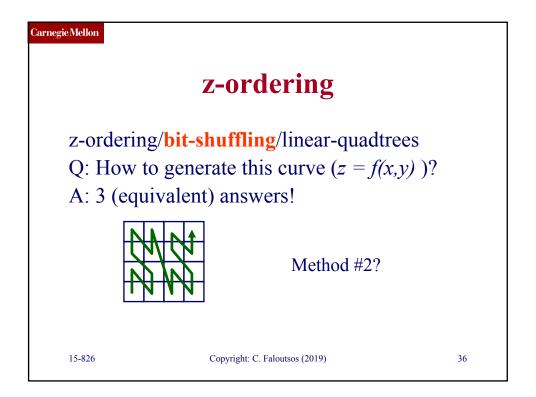


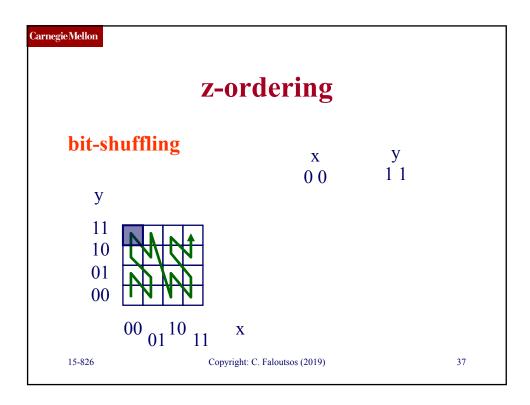


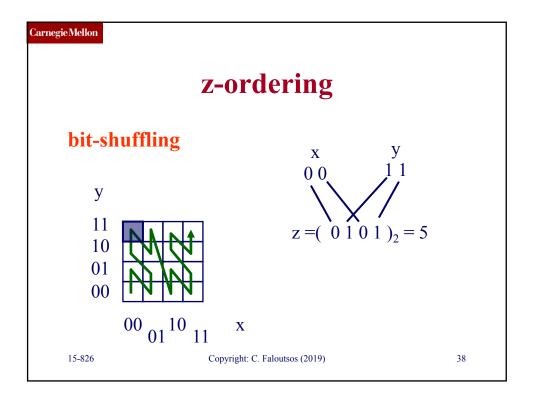


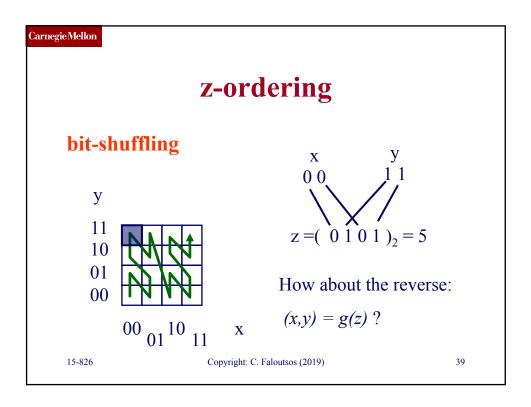


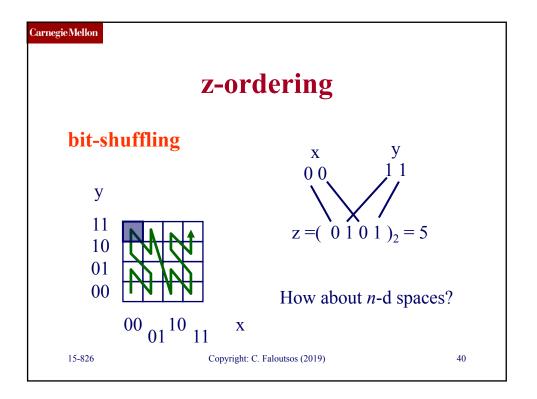


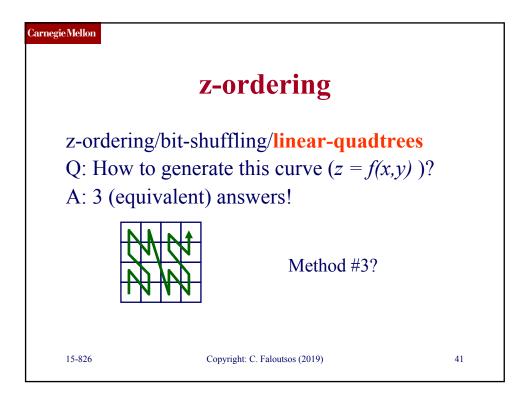


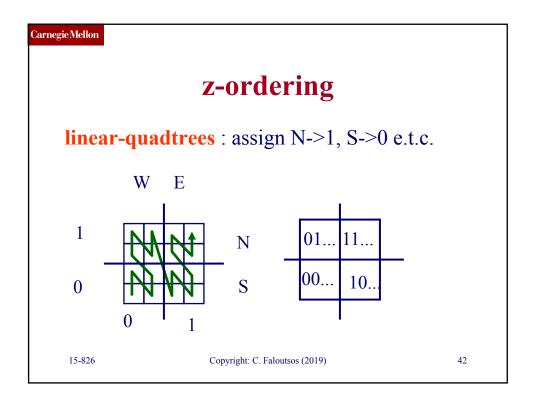


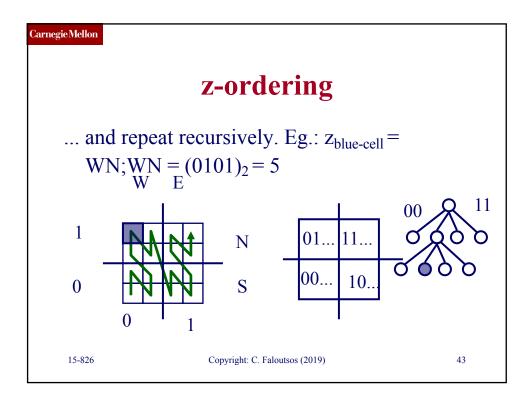


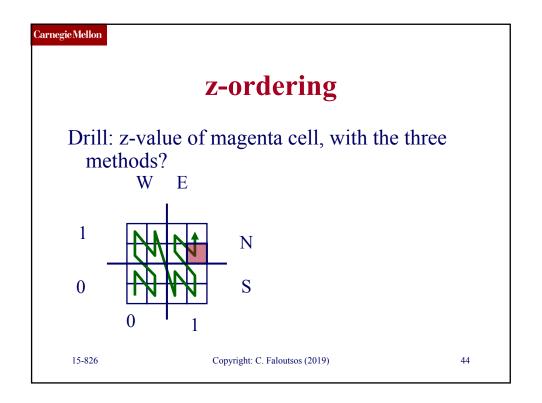


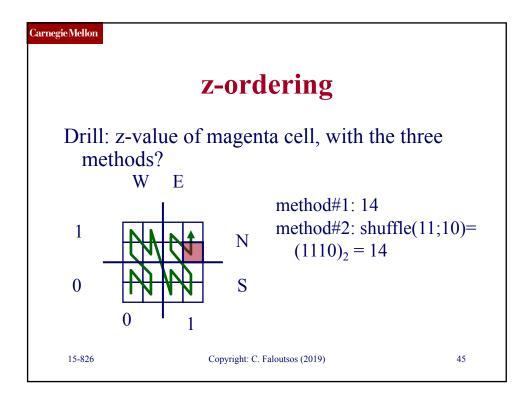


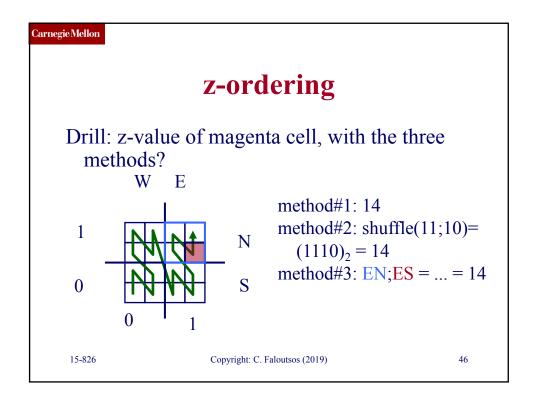


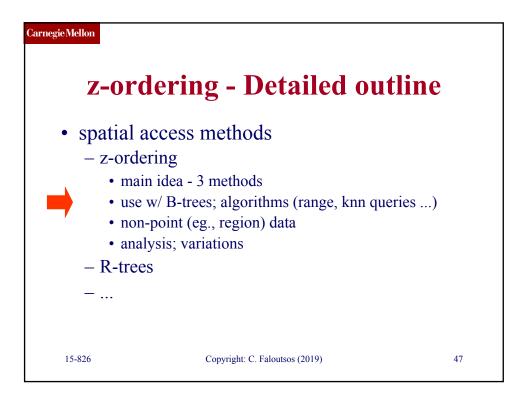


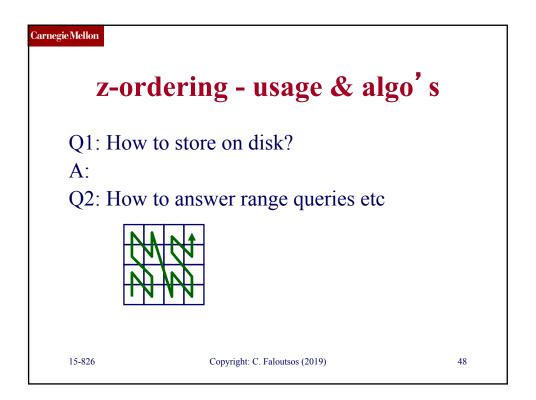


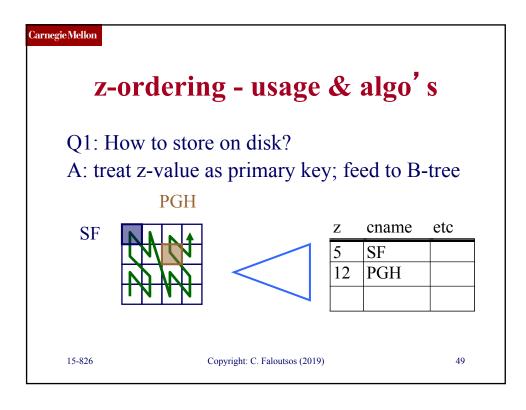


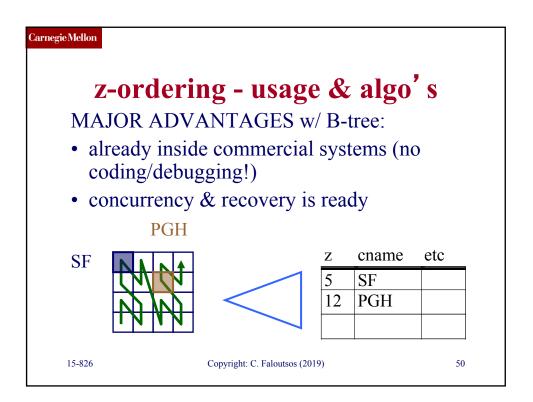


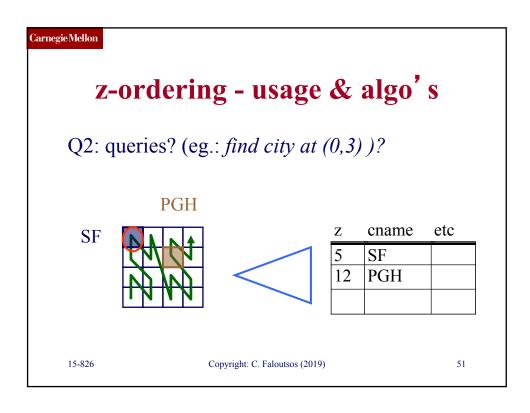


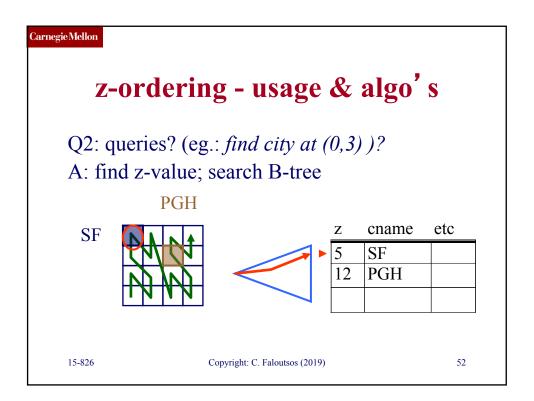


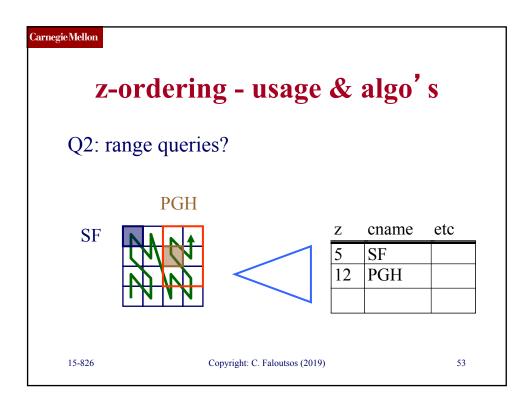


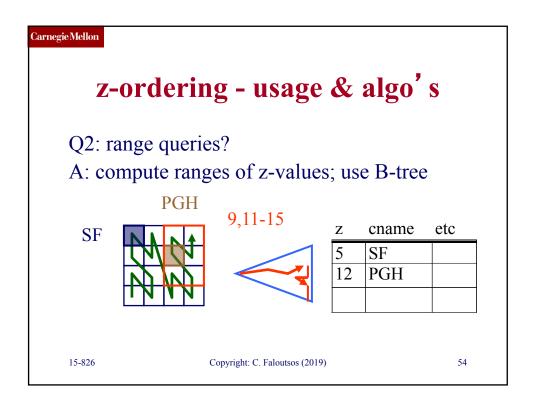


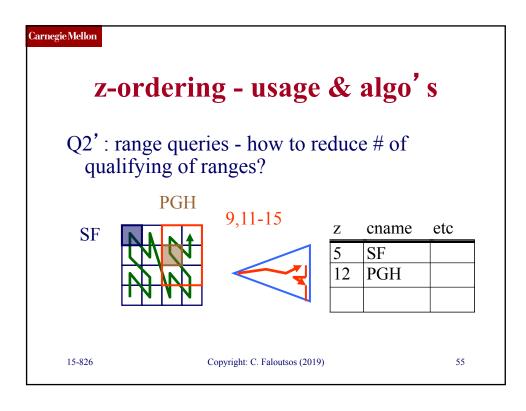


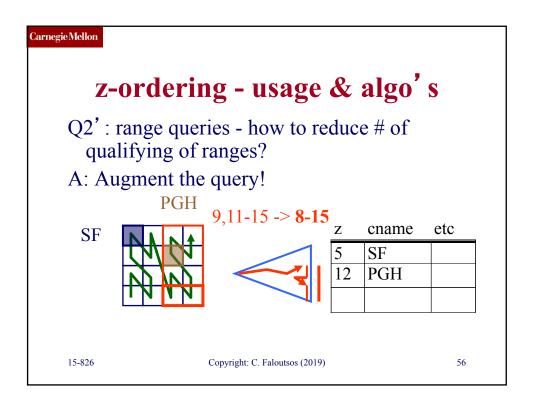


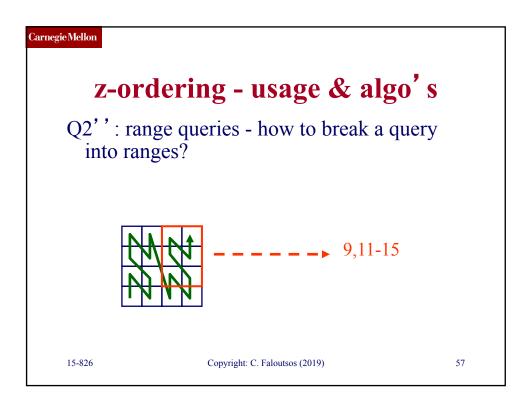


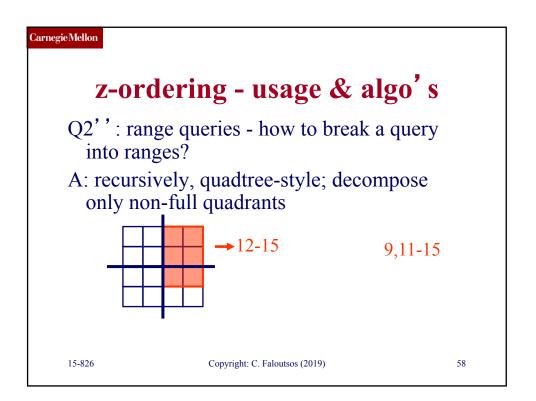


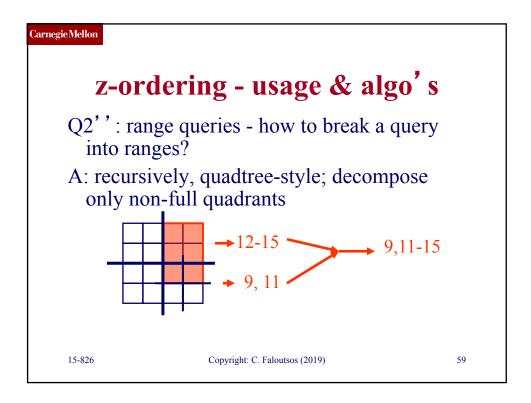


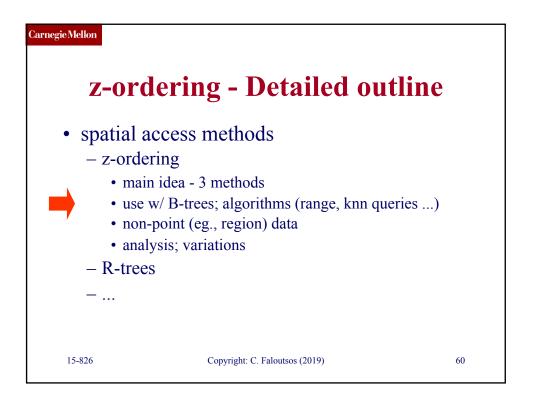


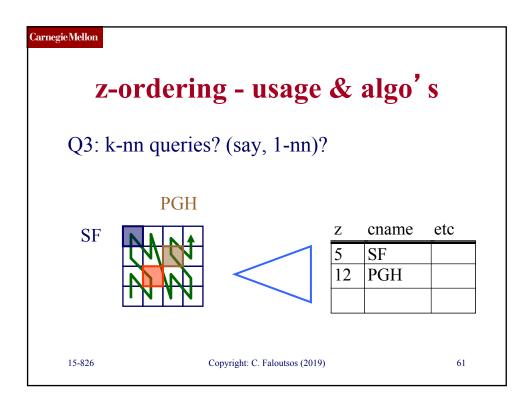


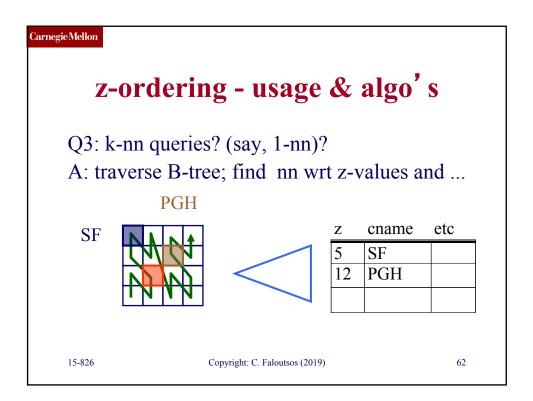


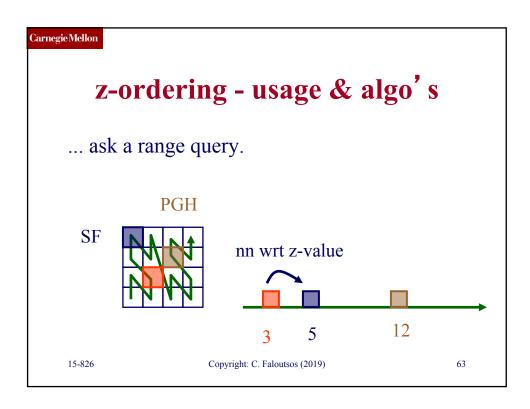


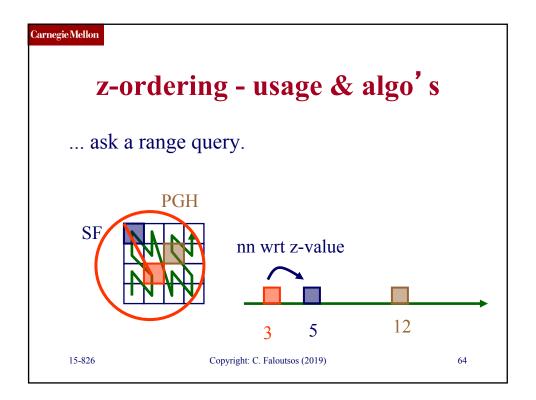


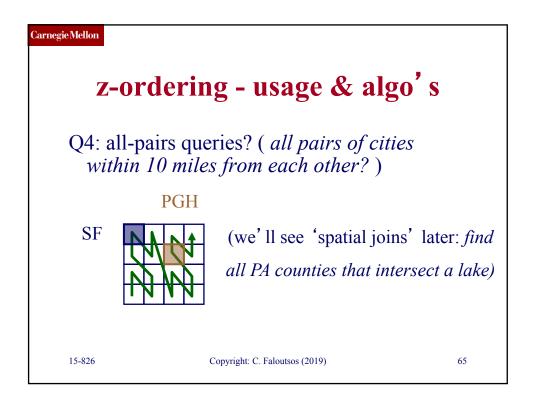


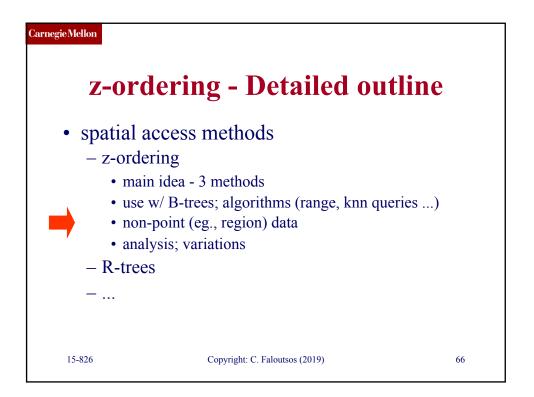


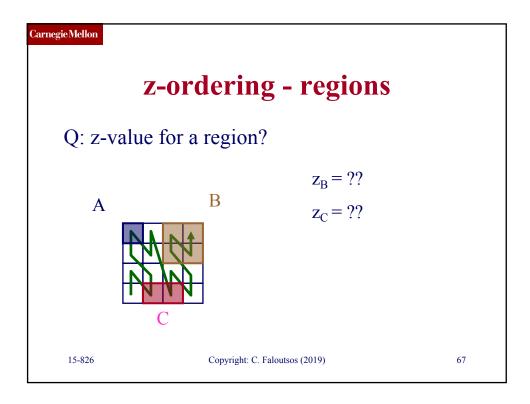


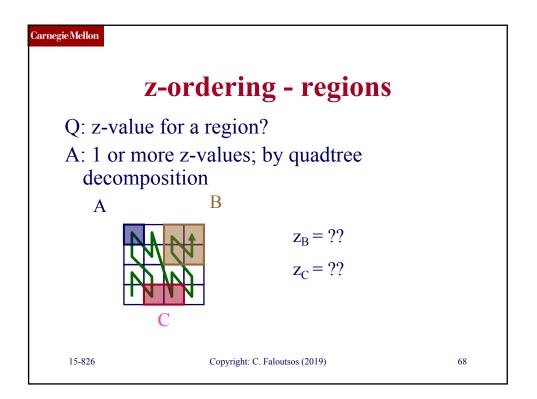


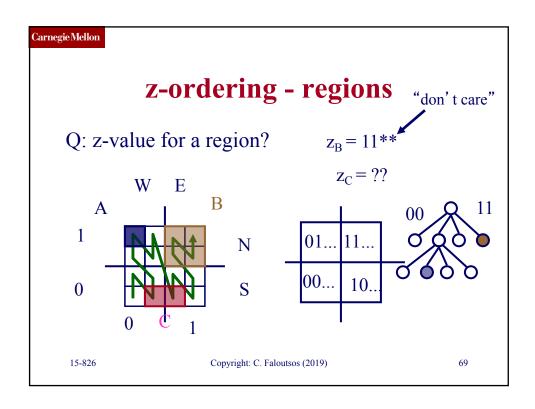


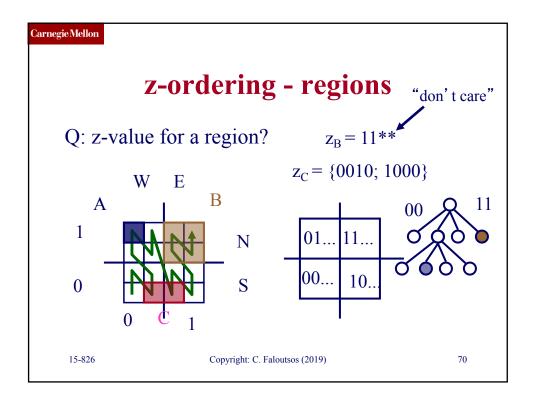


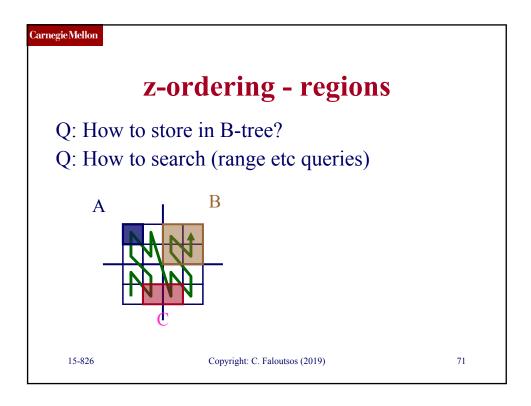


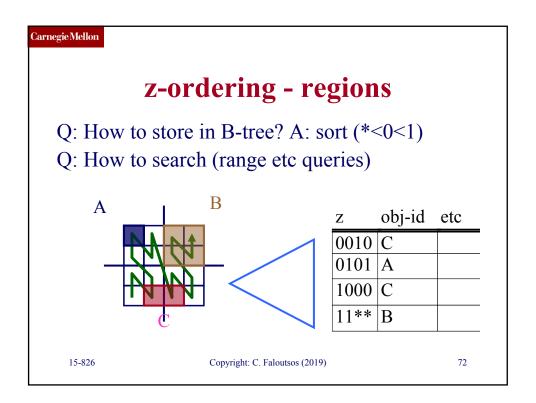


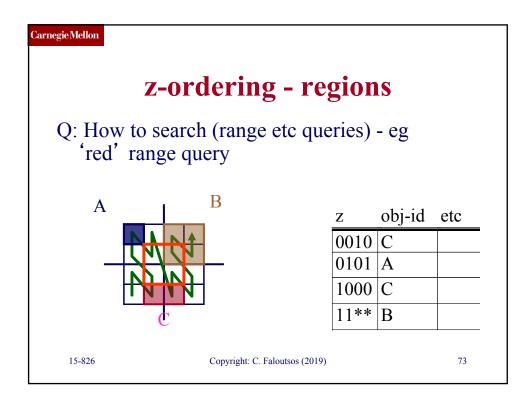


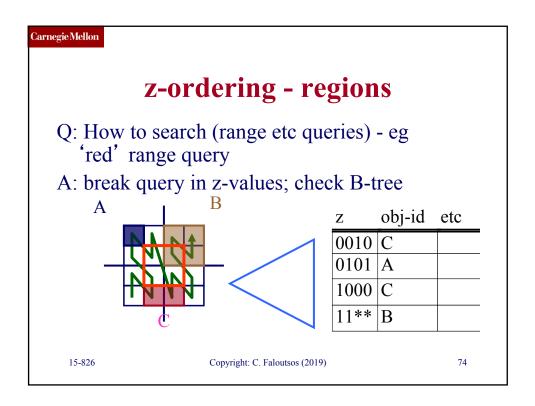


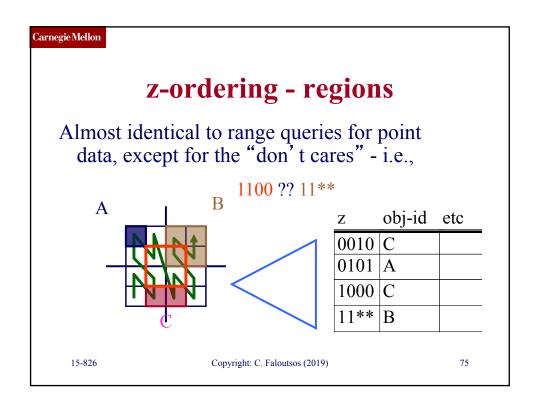


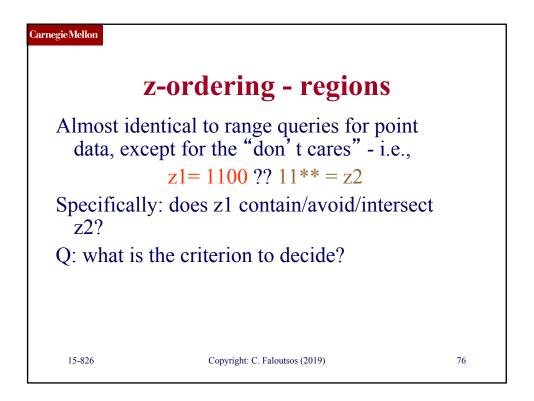


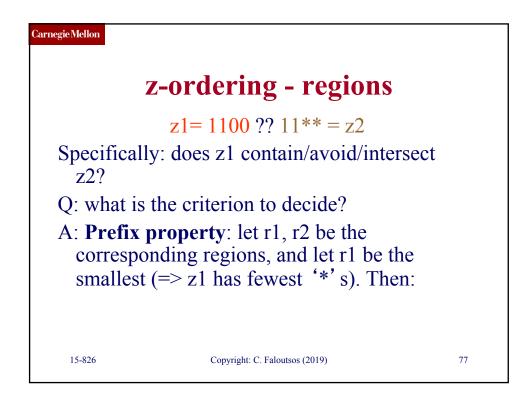


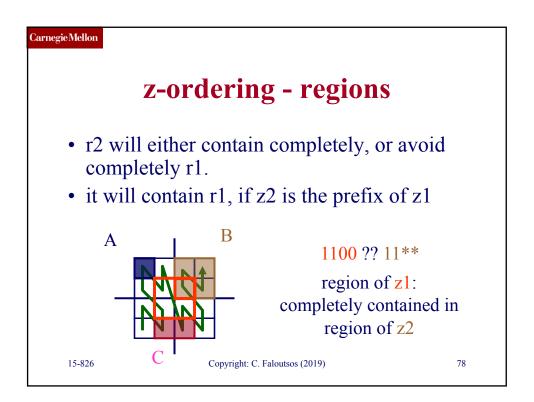


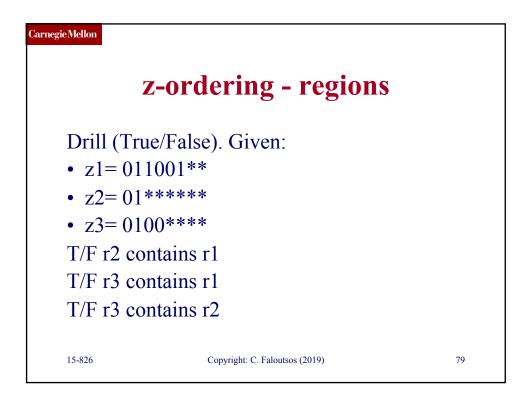


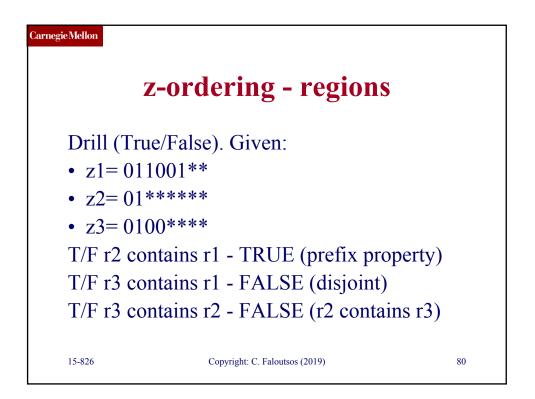


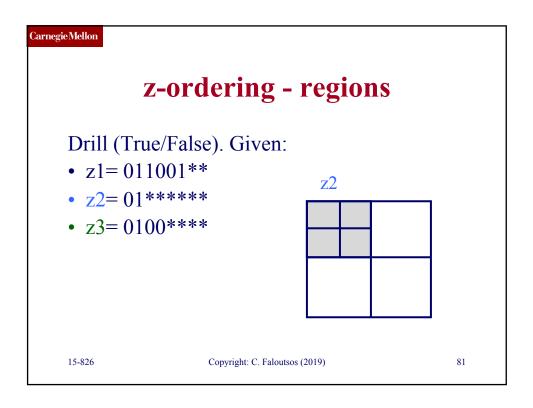


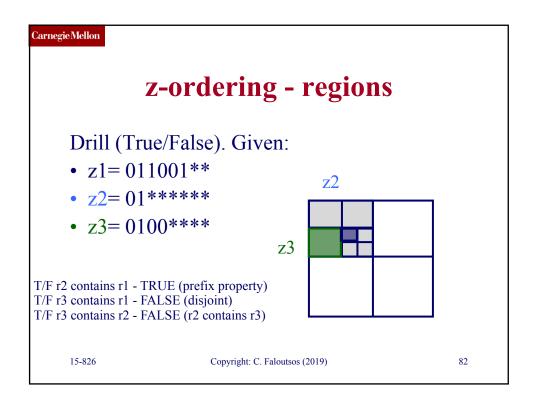


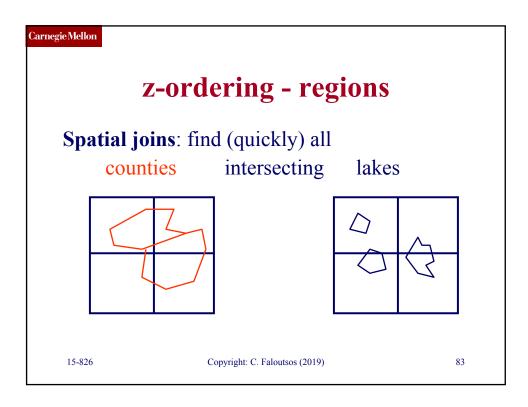


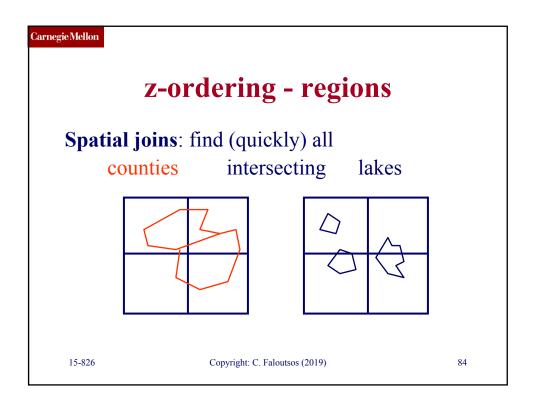


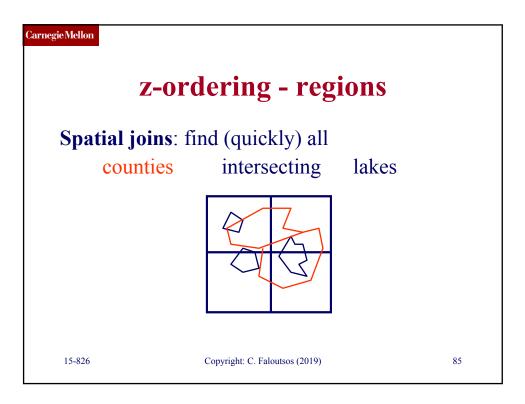


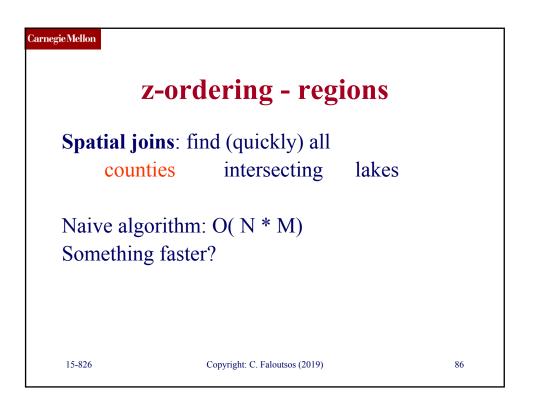






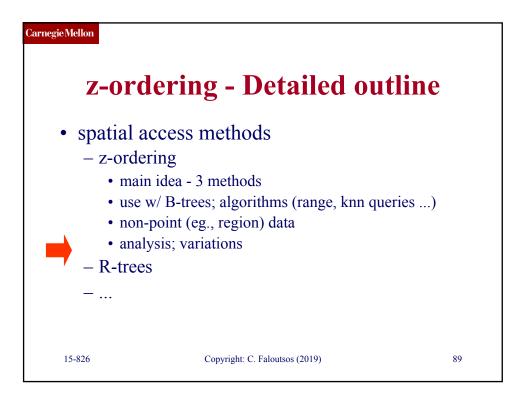


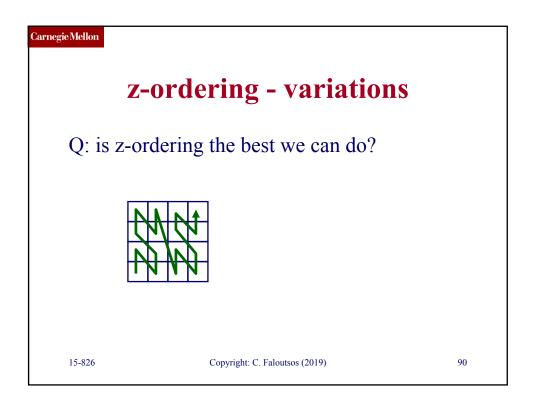


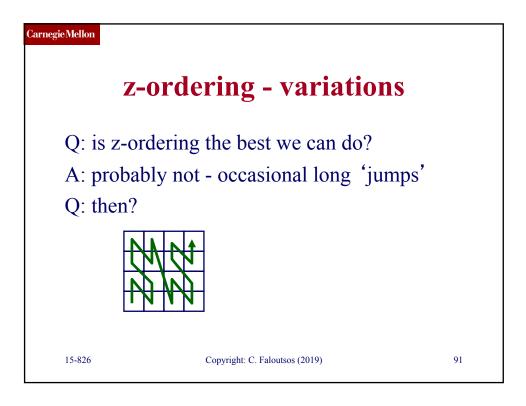


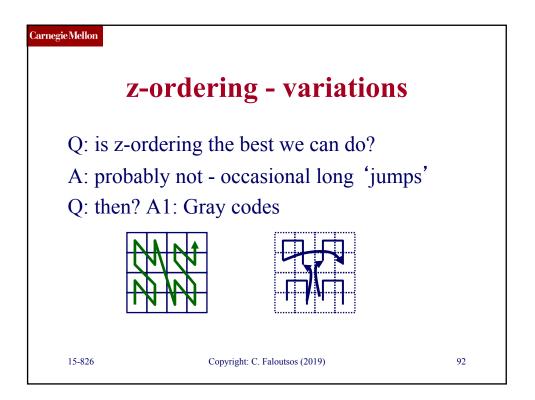
arnegie Mellon z-ordering - regions									
SI	Spatial joins: find (quickly) all counties intersecting lakes								
	Z	obj-id	etc		Z	obj-id	etc		
	0010	ALG		•	0011	Erie			
					0101	Erie			
	1000	WAS		-					
	11**	ALG		-	10**	Ont.			
15-	826	1	Соруг	- ight: C. Faloutsos (20)19)		87		

Carnegie Mellon							
z-ordering - regions							
		l (quickly) all intersecting	lakes				
Solution: merge the lists of (sorted) z-values, looking for the prefix property							
footnote#1: '*' needs careful treatment footnote#2: need dup. elimination							
15-826	C	Copyright: C. Faloutsos (2019)		88			









Carnegie Mellon (Gray codes)								
 Ingenious way binary: F. Gray. <i>Pulse code com</i> March 17, 1052 	3.5V →	ing L 000 001 010 011 100 101	0 1 2					
March 17, 1953 <u>U.S. Patent 2,632,058</u>		110 111	•					
15-826	Copyright: C. Faloutsos (2019)			93				

