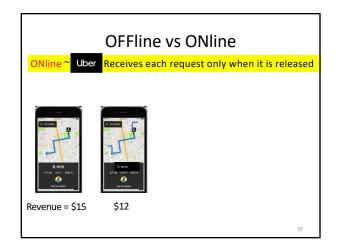


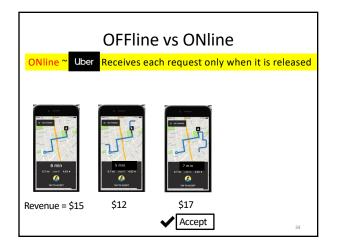
Online Dial-A-Ride					
	source-1	estination-1			
revenue1 = \$10 🗸	Goal: Serve requests to				
revenue2 = \$30 🗸	maximize total revenue				
revenue3 = \$50	within time limit	ource-2			
Time Limit = 24	destination-2				
IN. Ascheuer, S. Krumke, and J.	Rambau: STACS 20001	27			

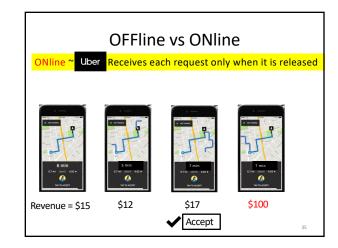


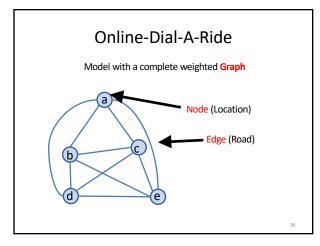
OFFline vs ONline						
	OFFline ~ "Reservation Service": Receives all requests in advance					
	Source	Destination	Time	Revenue		
	Oak Street	Airport	9am	\$15		
	Maple Ave	Grocery	3pm	\$10		
	Pine Street	Airport	12pm	\$5		
	Elm Rd.	2 nd Street	2:30pm	\$50		
	1st Street	Main Street	6:30pm	\$12		
A Contraction of the second se						

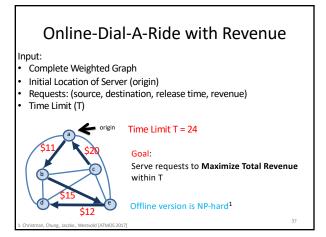


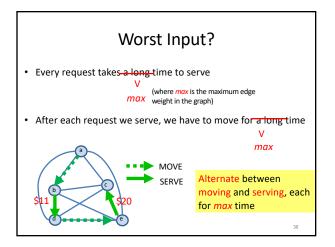


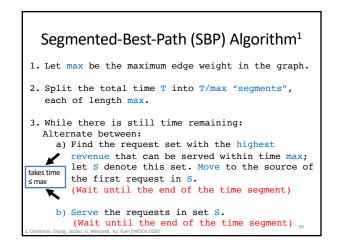


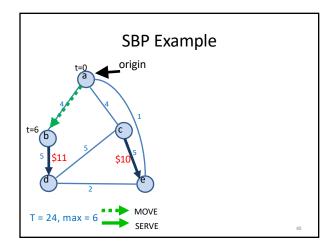


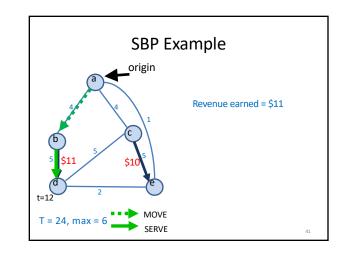


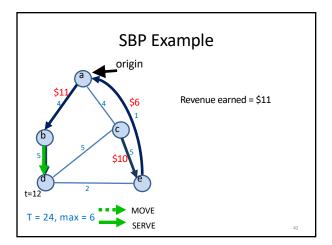


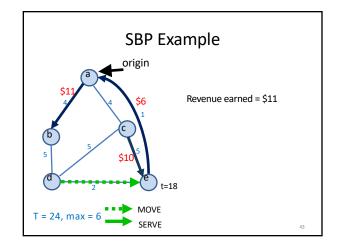


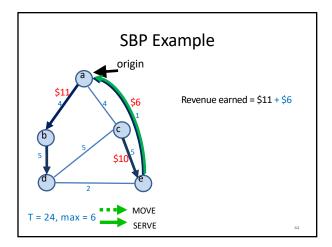


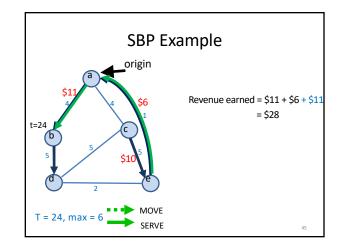


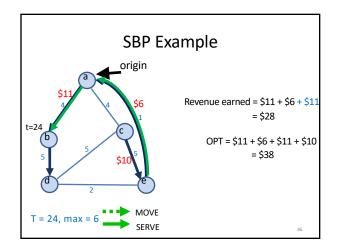


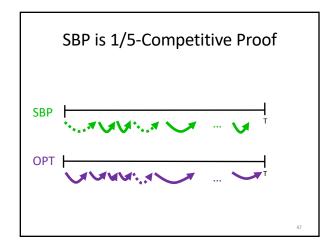


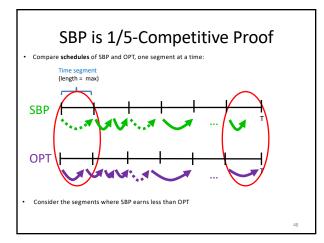


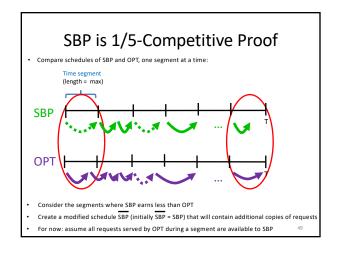


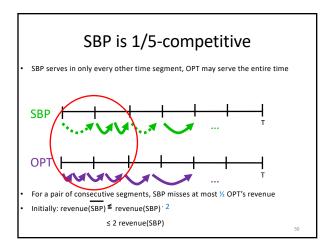


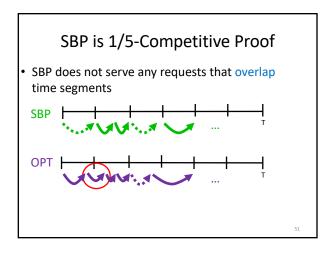


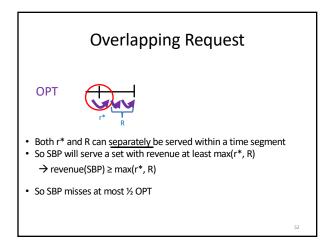


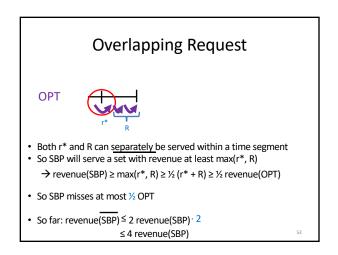


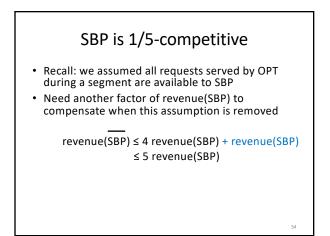


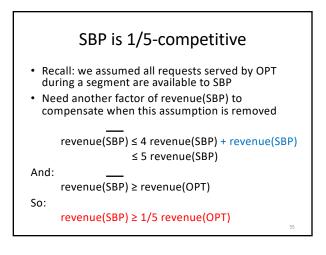


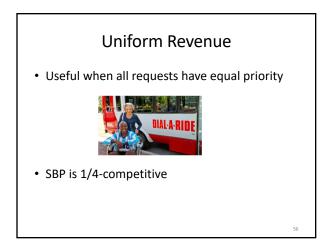


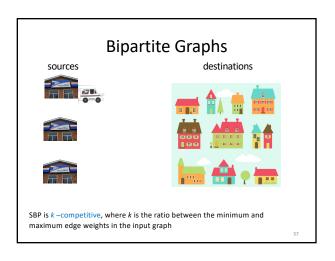












Outline

- Background: What is an Online Problem?
- Analyzing Online Algorithms: Competitive Analysis

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- Online Dial a Ride Problem
- Related Open Problems

