T





Analyzing Augmenting Path Algorithm





















Sc • ſ	h <mark>edul</mark> Mainter	ing Plane	S 1 hour		
	Number	Origin	Departure	Destination	Arrival
	1	Boston	6 a.m.	DC	7 a.m.
	2	Philadelphia	7 a.m.	Pittsburgh	8 a.m.
	3	DC	8 a.m.	LAX	11 a.m.
	4	Philadelphia	11 a.m.	San Francisco	2 p.m.
	5	San Francisco	2:15 p.m.	Seattle	3:15 p.m.
	6	Las Vegas	5 p.m.	Seattle	6 p.m.
	W	hat is a valid us	e of one pla	ne for > 1 seg	ment?
Apr 3, 2019 CSCl211 - Sprenkle					:

Scheduling PlanesMaintenance time: 1 hour								
	Number	Origin	Departure	Destination	Arrival			
	1	Boston	6 a.m.	DC	7 a.m.			
	2	Philadelphia	7 a.m.	Pittsburgh	8 a.m.			
	3	DC	8 a.m.	LAX	11 a.m.			
	4	Philadelphia	11 a.m.	San Francisco	2 p.m.			
	5	San Francisco	2:15 p.m.	Seattle	3:15 p.m.			
	6	Las Vegas	5 p.m.	Seattle	6 p.m.			
What is a valid use of one plane for > 1 segment?								
$1 \rightarrow 3 \rightarrow 6$								
Apr 3, 2019 CSCl211 - Sprenkle						14		



Scheduling PlanesMaintenance time: 1 hour								
	Number	Origin	Departure	Destination	Arrival			
	1	Boston	6 a.m.	DC	7 a.m.			
	2	Philadelphia	7 a.m.	Pittsburgh	8 a.m.			
	3	DC	8 a.m.	LAX	11 a.m.			
	4	Philadelphia	11 a.m.	San Francisco	2 p.m.			
	5	San Francisco	2:15 p.m.	Seattle	3:15 p.m.			
	6	Las Vegas	5 p.m.	Seattle	6 p.m.			
Could we schedule all flights from with only 2 planes?								
Apr 3, 2019 CSCI211 - Sprenkle						16		





