

	A	B	C	D	E
A	-	70	56	130	84
B	70	-	58	78	98
C	56	58	-	80	40
D	130	78	80	-	94
E	84	98	40	94	-

✓	✓	✗	✓	
CE	AC	BC	AB	BD
40	56	58	70	78
CD	AE	DE	BE	AD
80	84	94	98	130

So: AB CDE  
 ABCED ✓  
 ABDCE ✓  
 ABDEC ✓  
 ABEDC ✓  
 ABECD ✓  
 ACBDE ✓  
 ACBED ✓  
 ACDBE ✓  
 ACEBD ✓  
 AD BCE ✓  
 ADCBE ✓

CE:  
 ABCED  
 ABDCE  
 ABDEC ✓  
 ABEDC  
 ABECD  
 ACEBD ✓  
 AD BCE

¬CE:  
 ABCDE  
 ABEDC  
 ACBDE  
 ACBED  
 ACDBE  
 ADCBE

PI: CE  
 PE:

PI:  
 PE: CE

C1: ABDEC  
 C2: ACEBD

AC:  
 ABDEC  
 ACEBD  
 PI: CE, AC, BD  
 PE: AE, BC, CD

¬AC:  
 ABCED ✓  
 ABDCE ✓  
 ABEDC  
 AD BCE ✓

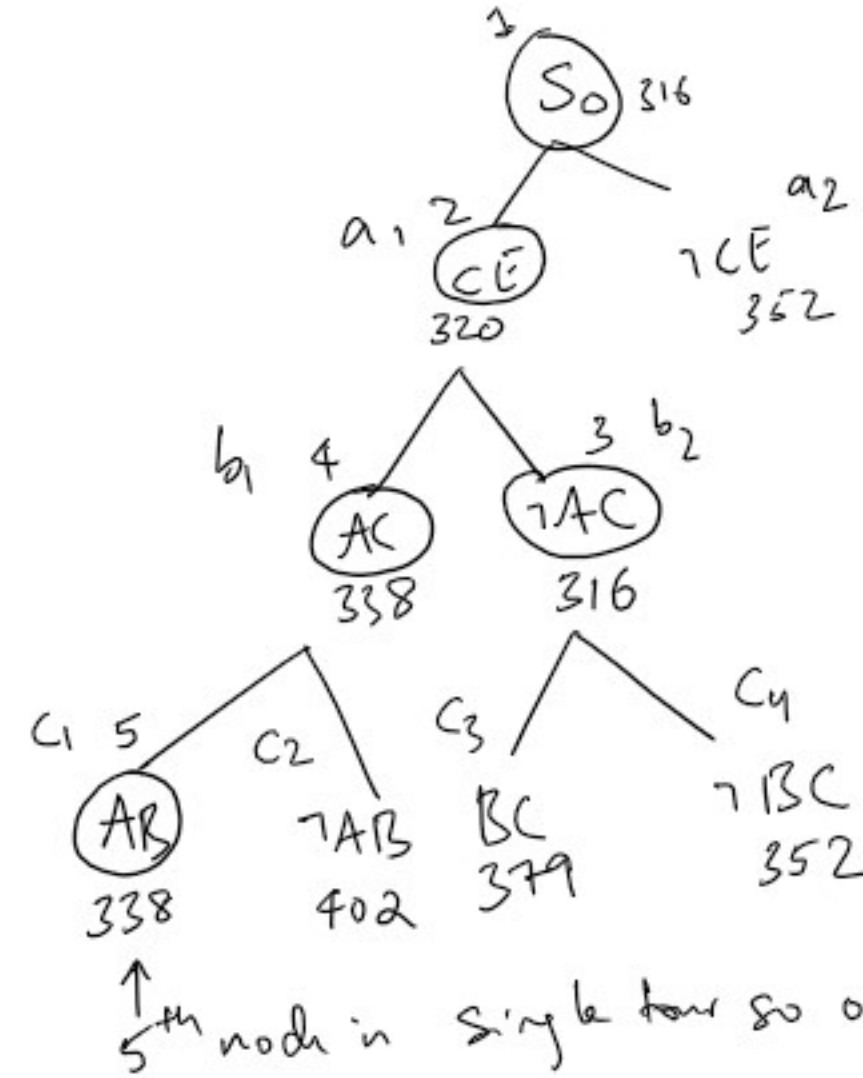
PI: CE,  
 PE: AC

C3: CE, ¬AC, BC

C4: CE, ¬AC, ¬BC

ABCED } PI: AD, BC, CE  
 AD BCE } PE: AC, BE, CD

ABDEC } PI: AB, CD, CE  
 ABEDC } PE: AC, BC, DE



Other will  
 lead to  
 higher cost.  
 So stopped

5th node in single tour so optimal.