10-11-2017	CS 186 HV2		Jesus Arechiga			
			Justin Passanisi			
(1)	Path	Cost	Chris Van Horn			
	ABCDE	9+2+3+2= [6]				
	BACDE	9+7+3+2 = 21				
adje.	CBADE	2+9+4+2 = 17				
10	EBCDA	1+2+3+4 = 10				
ABCDE	APCBE *		Chosen because same starting spot			
	ABEDC	9+1+2+3 = 15	3,100			
	ABCED	9+2+8+2 =2				
1117	ADCEB	4+3+8+1 =	16			
	DACBE	4+7+2+1 =	14			
adje.	CDABE	3+4+9+1 =	17			
10	EDCBA	2+3+2+9 =	16			
ADCBE	ABCDE	9+2+3+2 =	: 16			
	ADEBC *	4+2+1+2	[9]			
2	CBEDA = 9 is a local minimum					
	BCEDA	2+8+2+4:	: 14			
	EBCDA	1+2+3+4	10			
	ABEDC	9+1+2+3 =	15			
	CDEBA	3+2+1+9:	- 15			
	CBADE	2+9+4+2	17			

3	Path	Cost	Path	Cost		
	21121		34311			
	BACED	9+7+8+2 = 26	CEDAB	8+2+4+9 = 23		
	ABCED	9+2+8+2 = 21	ECDAB	8+3+4+9 = 24		
P ₁	CABED	7+9+1+2 = 19 4	DECAB	2+8+7+9 = 26		
	DACEB	9+7+8+1 = 20	BEDAC	1+2+4+7 = 14 P.		
P2	BECAD	1+8+7+4 = 20 0	CADEB	7+4+2+1=14 P2		
	BADEC	9+4+2+8 = 23	CEBAD	8+1+9+4 = 22		
	BACDE	9+7+3+2 = 21				
P. *	ACBED	7+2+1+2 = 12 \$	PEBAC	2+1+9+7 = 19		
	DABEC	4+9+1+8 = 22	BADEC	9+4+2+8 = 23		
	CEBAD	8+1+9+4 = 22	BECAD	1+8+7+4 = 20		
	CADEB	7+4+2+1 = 14	BEDCA	1+2+3+7 [13]		
Pa	EBCAD	1+2+7+4 = 14	ACDEB	7+3+2+1 = 13		
Minister Control	CEBAP	8+1+9+4 = 22	DACEB	4+7+8+1 = 20		
	DECAB	2+8+7+9 = 26	BADEC	9+4+2+8 = 23		
	BEDAC	1+2+4+7 = 14	CABED	7+9+1+2 = 19		
	BECDA	1+8+3+4 = 16				
			tie break	tie breaker = # of letters moved from		
			original Sp	original spot in CEDAB.		

B ACED > BEDAB × BA CED => BADAB × BAC ED => BACAB ×

C EDAB => CACED × CE DAB => CECED × CED AB => CEDED ×

no crossover point results in a valid path.