

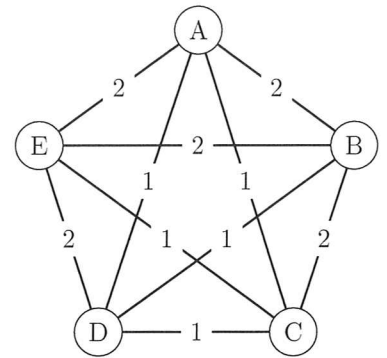
Chinese Postman Problem

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1. Solve the Chinese postman problem and find the weight of the solution for the weighted graph below.

An Eulerian circuit: $ADBECAEDCBA$.

weight = 15.



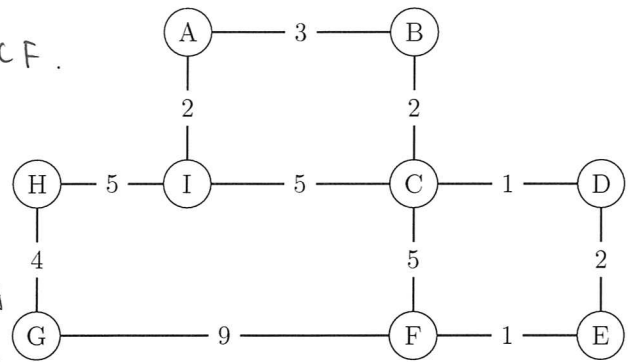
2. Solve the Chinese postman problem and find the weight of the solution for the weighted graph below.

An Eulerian trail: $IHG FEDC IABCF$.

plus shortest path from I to F.

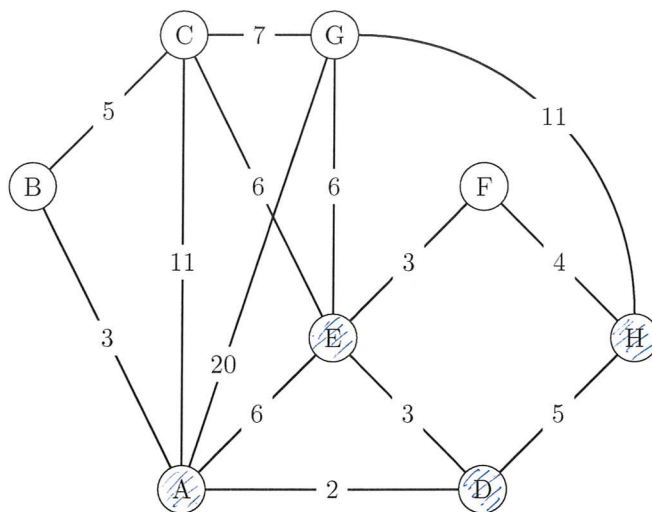
Dijkstra's Algorithm: $ICDEF$ 9

	I	B	C	D	E	F	G	H	A
I	0								
A	3								
B	3								
C	5								
H									
D									
E									
F									



weight = $39 + 9 = 48$.

3. Solve the Chinese postman problem and find the weight of the solution for the weighted graph below.



Pairing	Shortest Path	Weight
AE/DH	AE / DH	$5+5=10$
AD/EH	AD / EFH.	$2+7=9. \checkmark$
AH/ED	ADH / ED	$7+3=10$

$$\text{weight} = 9 + 9 = 18.$$

