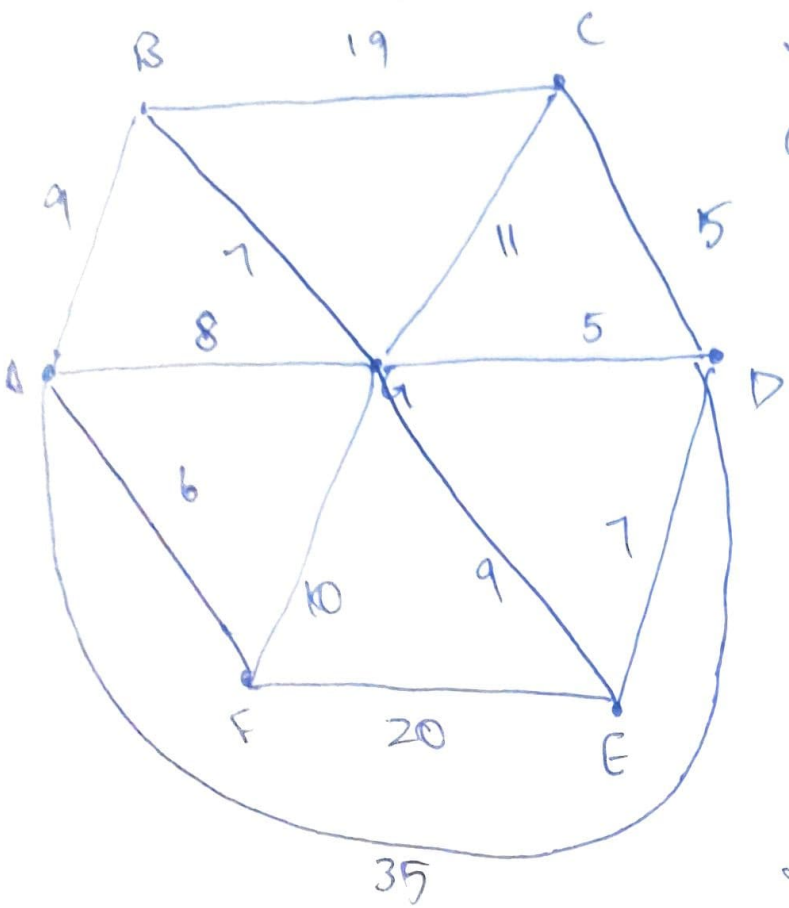
Q. Chinese postman:



Vertices of odd ~~degree~~ degree are:

B, C, F, E

Making pairs:

$BC^* = 7+11 = 18$

$FE^* = 10+9 = 19$] = 37

$BF = 9+6 = 15$

$CE = 5+7 = 12$] = 27

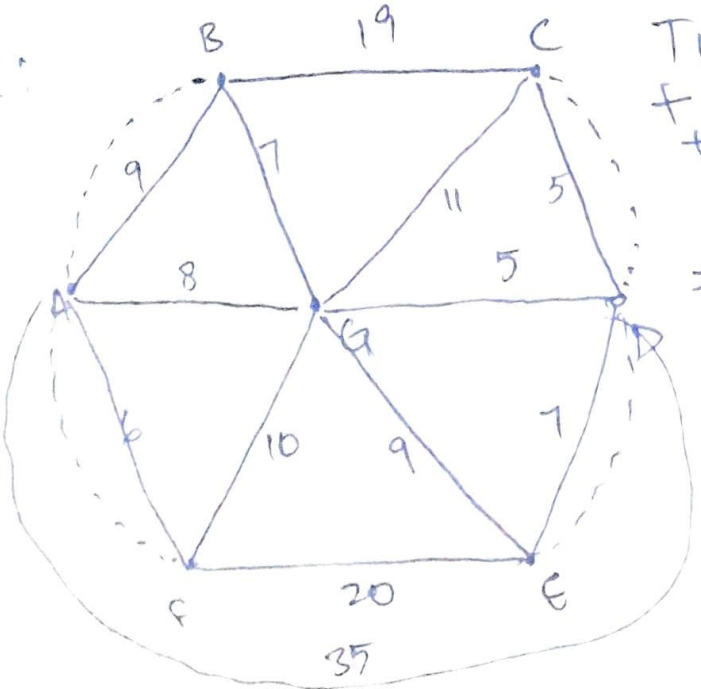
BE: 7+9 = 16

CF: 11+10 = 21] = 37

We see that BF, CE pair is shortest, we choose that:

BGF & CDE: (path)

Graph:



Total cost = 19 + 7+11+5+5 +9+8 +6+10+9+7+20+55

= 151 + 27

= 178

Possible path:

A — B — C — D — G — C — D — E
— G — B — A — G — F — A
— D — E — F — A.

↳ Total cost = 178