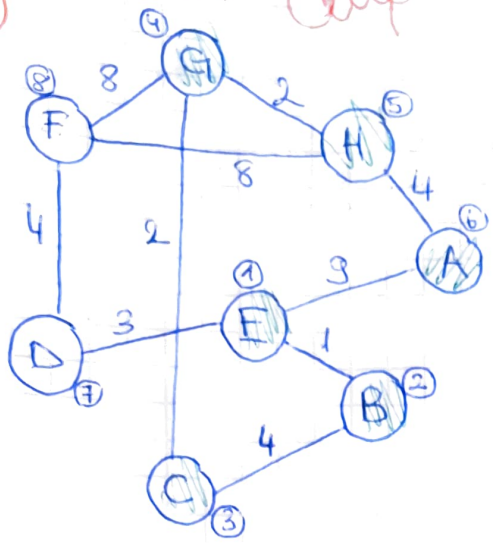
Soleray Rose Batubay
3B294

(1)

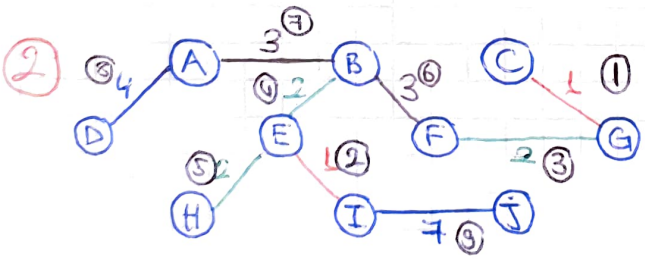


Source node →	A	B	C	D	E	F	G	H
E	9	1	∞	3	0	∞	∞	∞
B	∞		5	∞		∞	∞	∞
C	∞			∞		∞	7	∞
G	∞			∞		15		9
H	13			∞		17		
A				25		25		
D						29		
F								

⇒ does not matter, choose either one

shortest path

(2)



minimum spanning tree.

cannot add |FI|=3 since it forms a cycle.

cannot add |HI|=4 since it forms a cycle.

cannot add |AE|=4, " " forms a cycle.

cannot add |DE|=5

cannot add |DH|=6
|CF|=6
|GJ|=8
|BC|=10
|FJ|=11
|EF|=11

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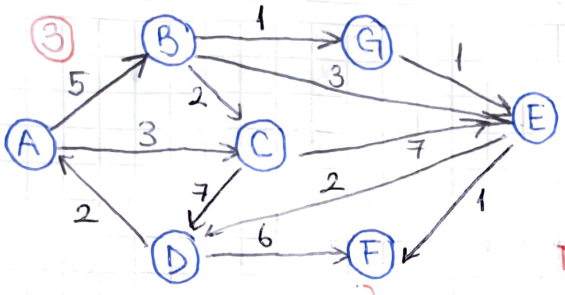

since F has nowhere positive it has to be sink node.

	A	B	C	D	E	F	G
B	–		2	–	3	–	(1)
G	–		–	–	(1)	–	
E				(2)		~~(1)~~	
D	2		–			†	
A			(3)			†	
C							

B→ _____ E→F

source node	A	B	C	D	E	F	G
B	–	(1)	(2)	–	–	–	–
C							
E	–	–	–	2	0	1	–
F							

	A	B	C	D	E	F	G
B	–	–	2	–	3	–	(1)
G	–	–	–	–	(1)	–	
E	–	–	–	(2)	–	1	–
D	(2)	–	–	–	–	6	–
A	–	–	(3)	–	–	–	–
C							
F							

∇ F has only ~~one~~ two entry (E) (D)

∇ cannot go G since it leads to E.

→ if E-F B-G-E- does not satisfy

since nowhere to go from F

Final route: B→G→E→D→A→C→F