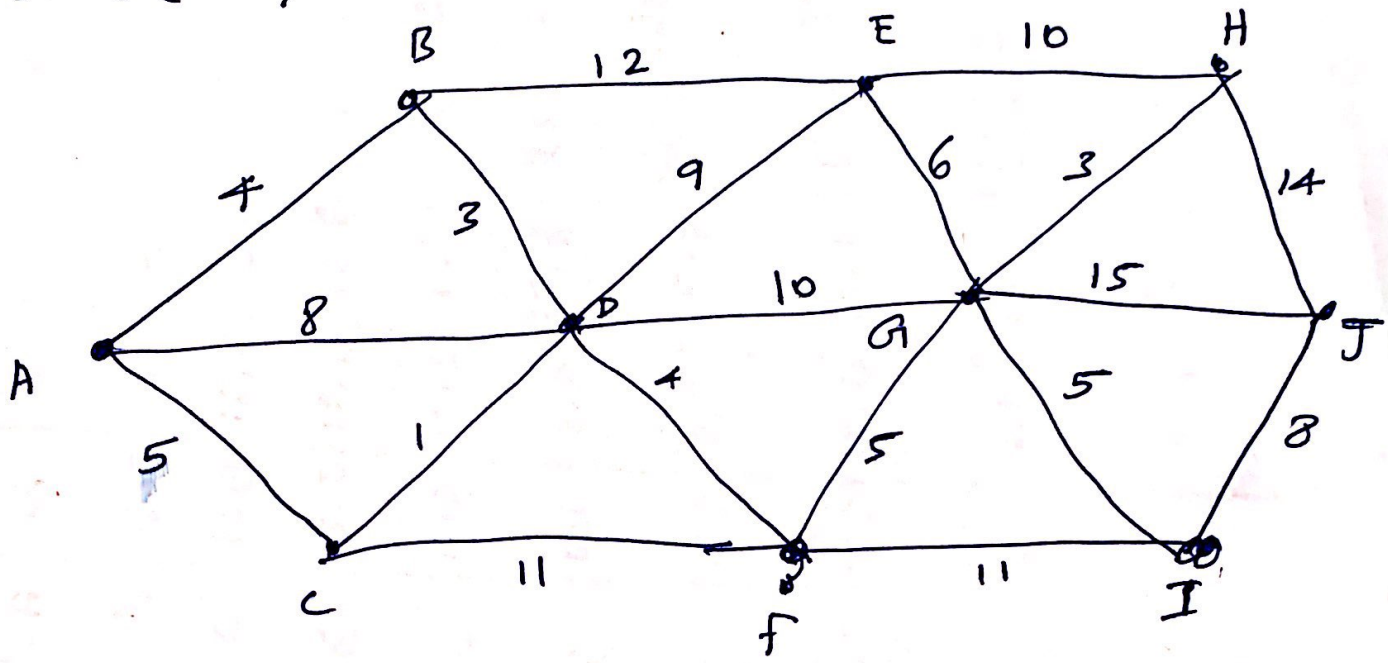
TUTORIAL

Find the Shortest distance from A to J on the h/w below



A → J → I → G → F → D → C → A

with Cost of 28

Dij

step	Visited	A	B	C	D	E	F	G	H	I	
1	A	0, A	4, A	5, A	8, A	∝	∝	∝	∝	∝	∝
2	A, B	0, A	4, A	5, A	7, B	16, B	∝	∝	∝	∝	∝
3	A B C	0, A	4, A	5, A	6, C	16, B	16, C	∝	∝	∝	∝
4	A B C D	0, A	4, A	5, A	6, C	15, D	10, D	16, D	∝	∝	∝
5	A B C D f	0, A	4, A	5, A	6, C	15, D	10, D	15, f	∝	26, f	∝
6	A B C D f E	0, A	4, A	5, A	6, C	15, D	10, D	15, f	25, E	26, f	∝
7	A B C D f E G	0, A	4, A	5, A	6, C	15, D	10, D	15, f	18, G	20, G	30, G
8	A B C D f E G H	0, A	4, A	5, A	6, C	15, D	10, D	15, f	18, G	20, G	20, G
	A B C D f E G H I	0, A	4, A	5, A	6, C	15, D	10, D	15, f	18, G	20, G	28, I

2.

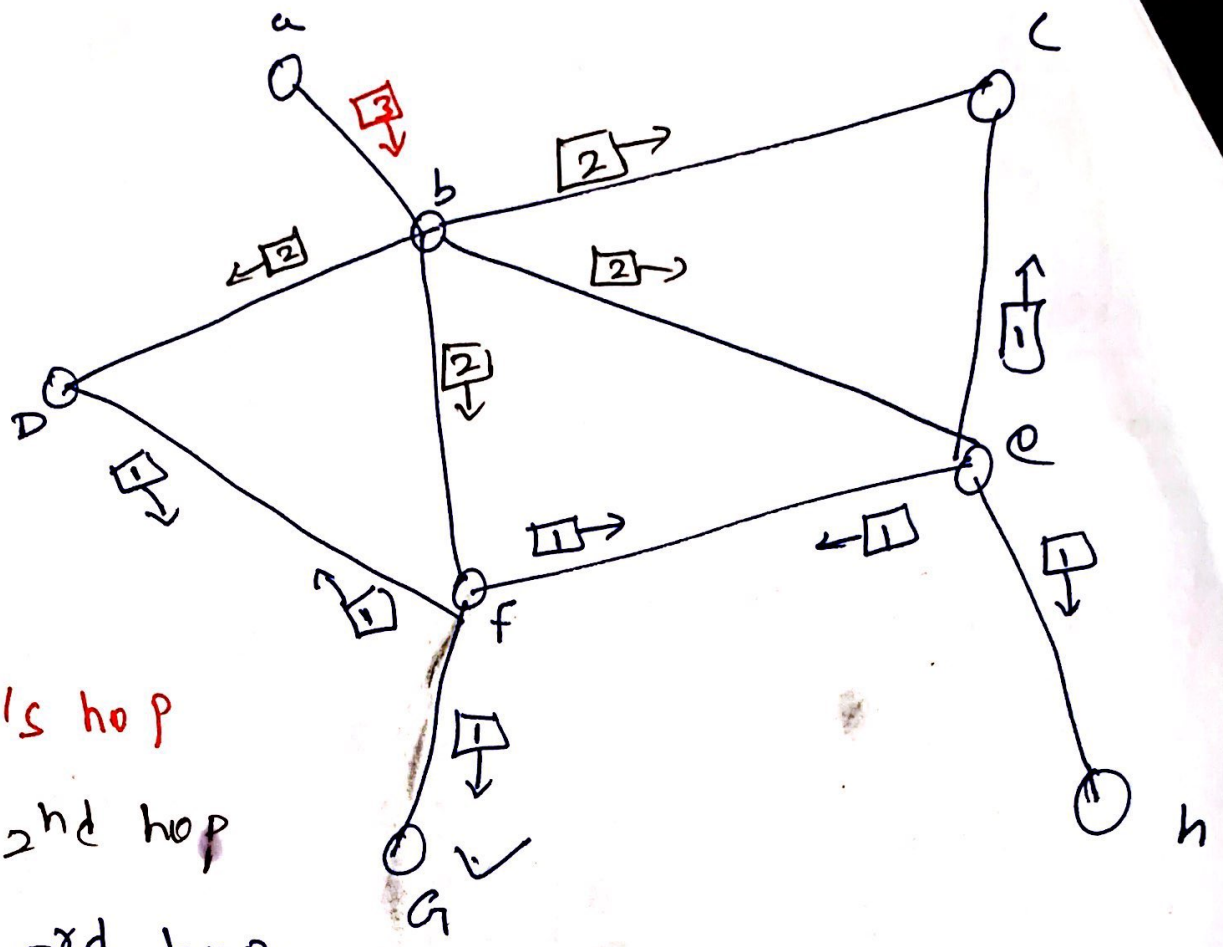
Non-Hierarchical ab 1A

(Next Node from source)

Dest	Line	Hop
1a →	–	–
1b →	1b	1
1c →	1c	1
1d →	1c	2
1e →	1c	3
1f →	1b	2
2a →	1b	4
2b →	1b	5
2c →	1b	6
2d →	1b	5
2e →	1b	4
3a	1b	5
3b	1b	4
3c	1b	4
3d	1b	3
3e	1b	4
3f	1b	5
3g	1b	4
3h	1b	5

Hierarchical ab 1A

Dest	Line	Hop
1a	–	–
1b	1b	1
1c	1c	1
1d	1c	2
1e	1c	3
1f	1b	2
2	1b	3
3	1b	3



1 → 1's hop

2 → 2nd hop

3 → 3rd hop.

during 3rd hop data is received by the receiver.