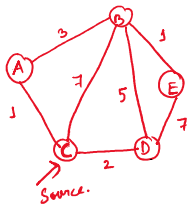
Solve using Dijkstra considering C as source point.



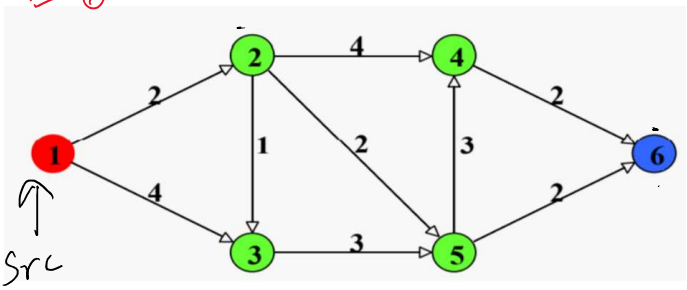
Selected Node	Destination A	B	C	D	E
	∞	∞	0	∞	∞
C	1	7		2	∞
A		4		2	∞
D		4			9
B					5

d(src to B via D)
= d(src to D) + d(D to B)
= 2 + 5
= 7.

d(src to E via D)
= d(src to D) to d(D to E)
= 2 + 7 = 9.

d(src to E via B) = d(src to B) + d(B to E)
= 4 + 1 = 5

src to 4 + 4 to 6
= 6 + 2 = 8



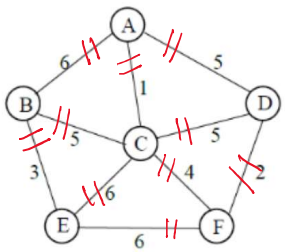
Selected Node	1	2	3	4	5	6
	0	∞	∞	∞	∞	∞
1		2	4	∞	∞	∞
2			3	6	4	∞
3				6	4	∞
5				6		4+2=6
4						6

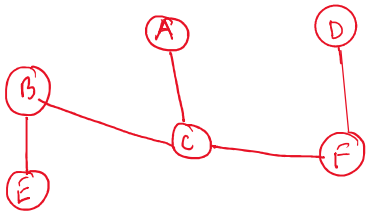
d(src to 2 via 1) = src to 1 + 1 to 2

d(src to 3 via 2) = d(src to 2) + d(2 to 3)
2 + 1 = 3

src to 4 via 2 = src to 2 + 2 to 4.
= 2 + 4 = 6.

MST using Prims algo.





Node From	Node To	Weight
A	B	6
A	D	5 ✗ loop.
A	C	1 ✓
C	B	5 ✓
C	D	5
C	E	6
C	F	4 ✓
E	F	6
D	F	2 ✓
B	E	3 ✓

MST wt = 15