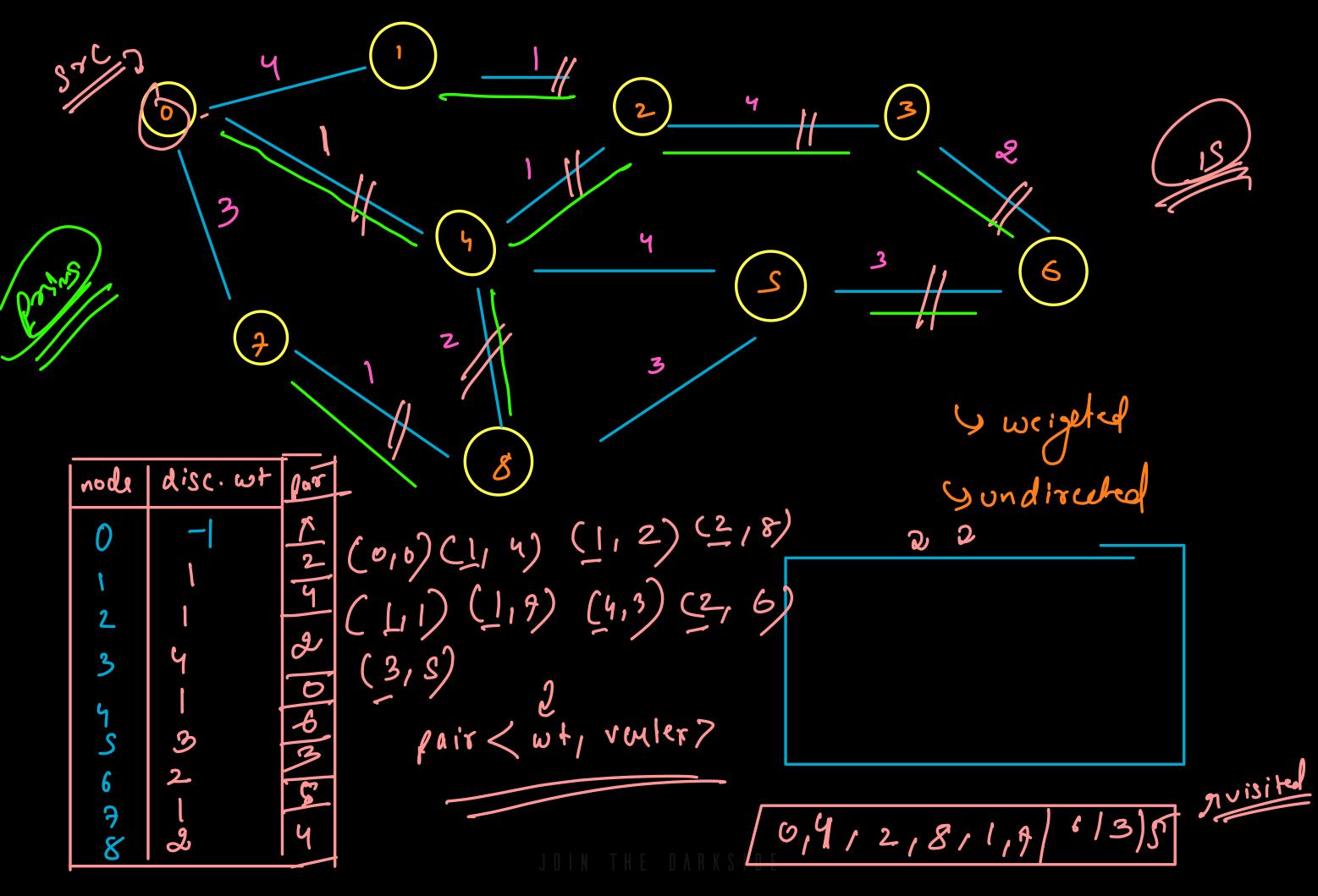
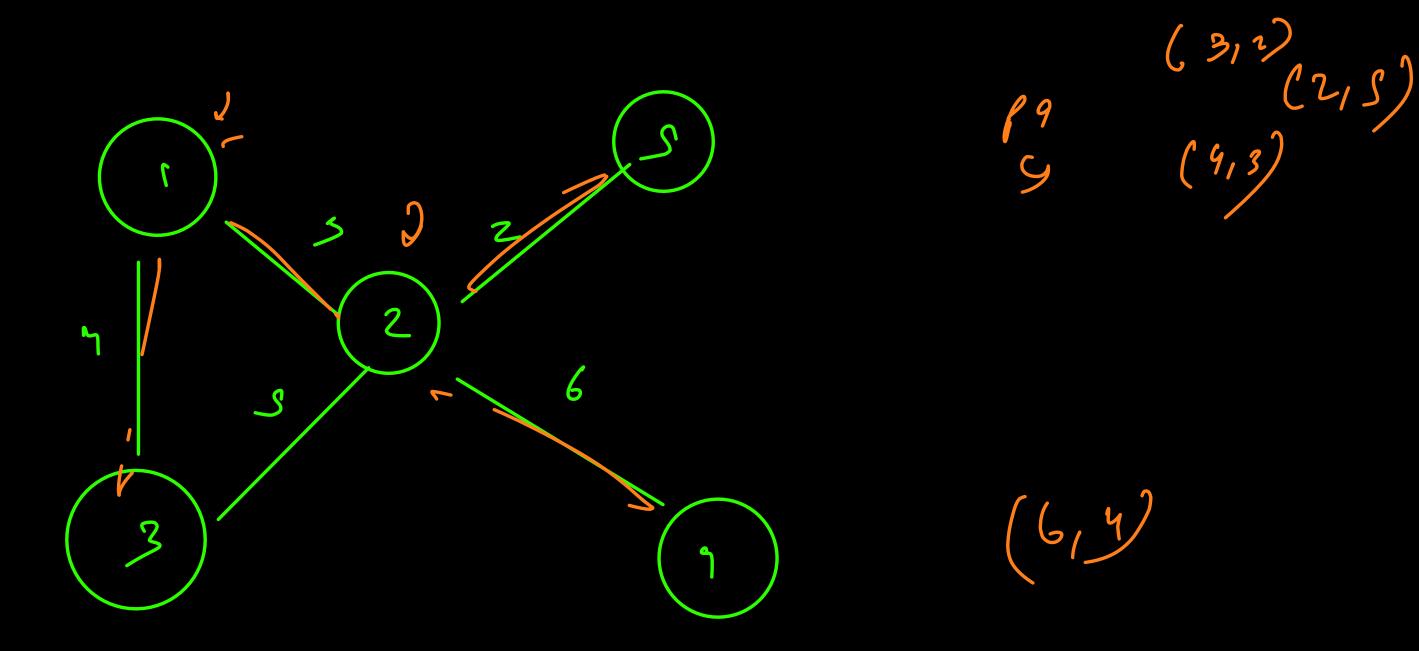


Prim's Algorithm - MST Gluority Quew S greedy 5 Source node genn or smallert wt de SKC &.c nı nz ns  $\omega$ vis - n1/12, ns Privoity que & smin les



une stant une a soc le boy be discouer other In prime noclesdiscover > e1, w1  $(\omega_2 \leq \omega_1)$ Come should update the disturr wt key wz.

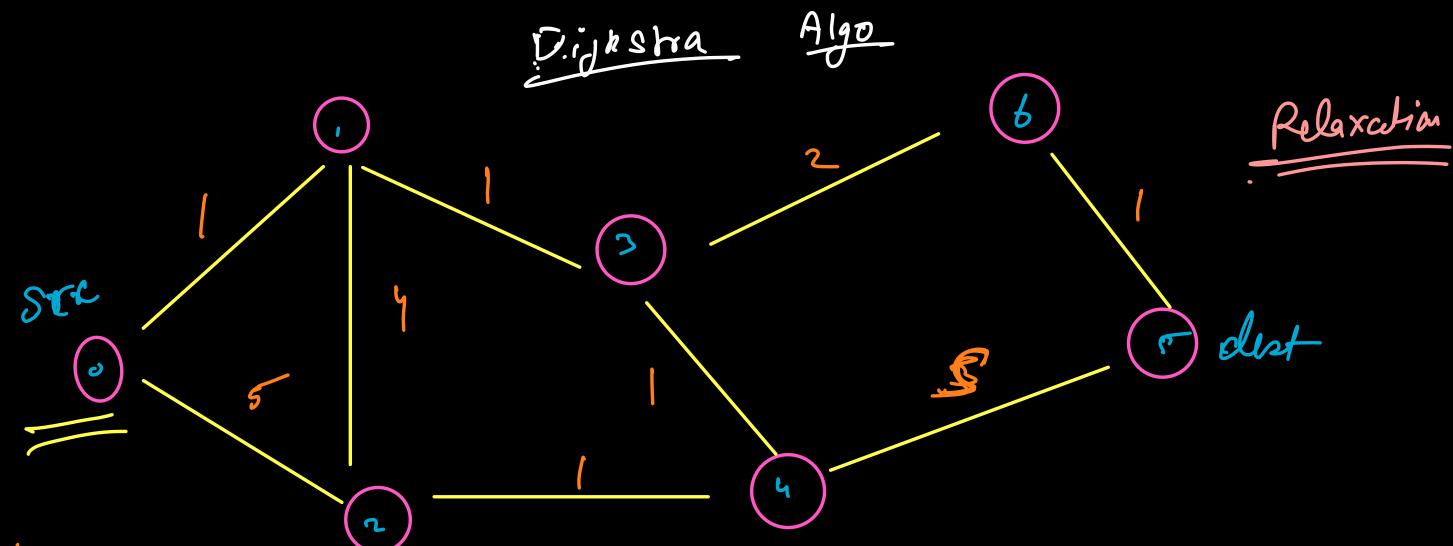
at the Start of the clos, disc. wit of every moder encept soc is so, because we not not discovered any they



On Crim an undirected weylited graph, day with a sic and dest. find the shootest both both the sic & dest in terms of sum of edge costs.

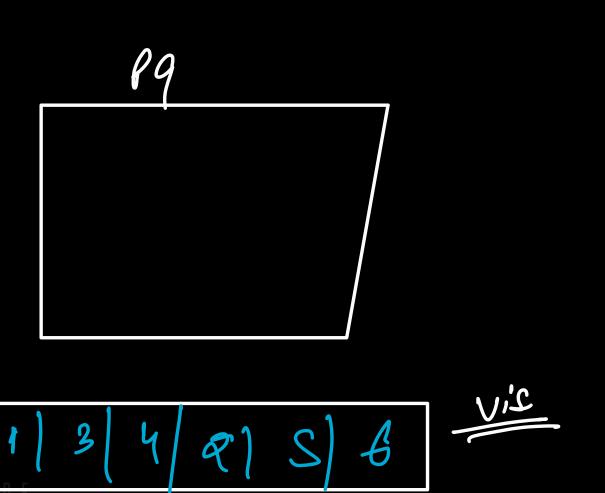
src 3 dest

We already how to solve path pro 6 lem Shortest an aughted BFS 9 lum Soc quue > priority que Orins



Pait dist, node>

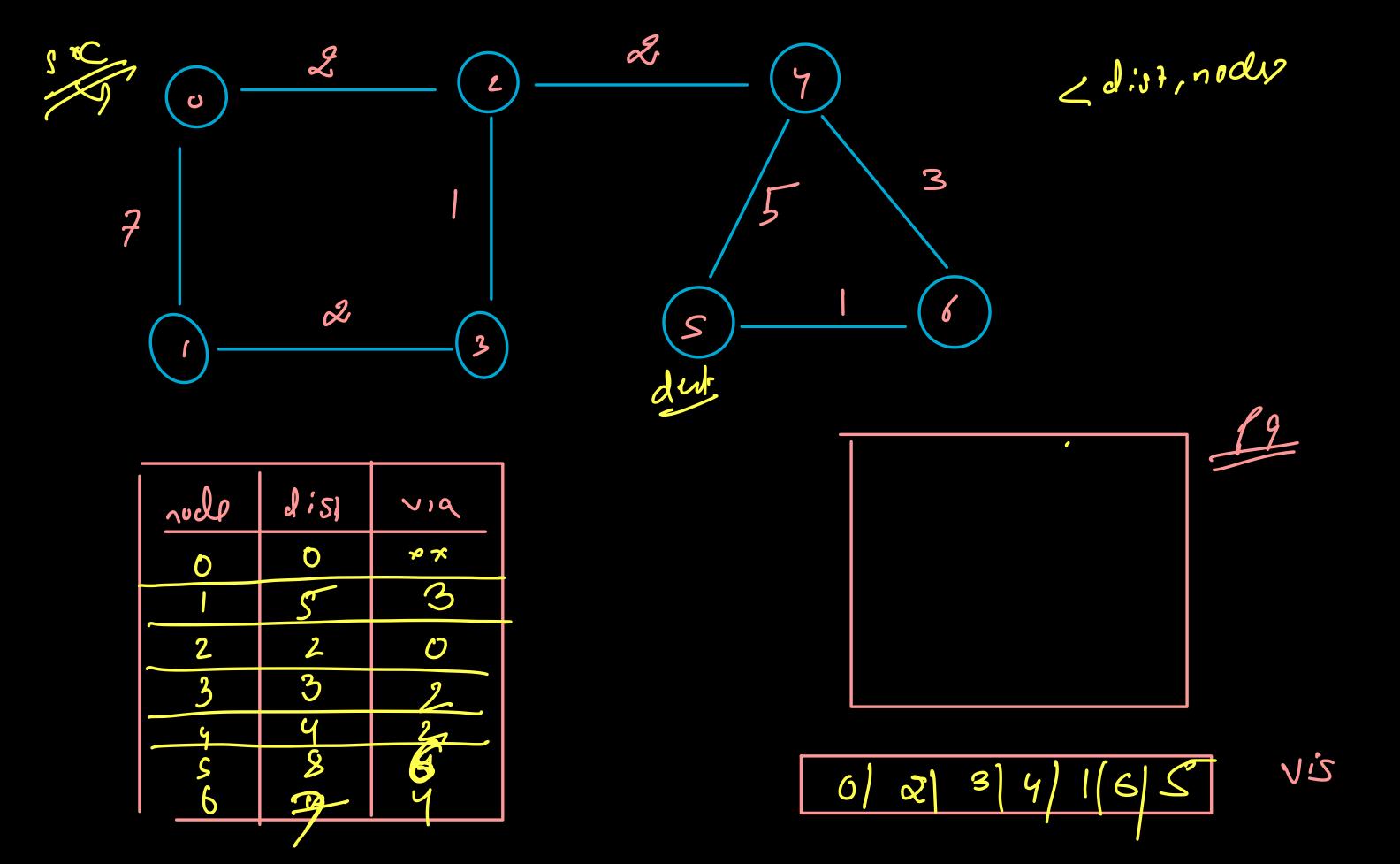
node	dist	via
O	0	* **
1	1/	0
2	5/4	Ø Y
3	9,	1
4	3	3
ے	85	46
6	4	3



the shortest dist from src to any node.

Sir; Mills dist what is didet 2 di-> lul now what is the Shortest fall from Sochoy. de > Ill now cetat is the shorted from STC 6x

 $w \Rightarrow edg w d d n and z$ if (dz + w - d1) (dz + w) = dz + w via [y] = n



Kruskals no. y volter Stam großen

Poins

2 no. greet

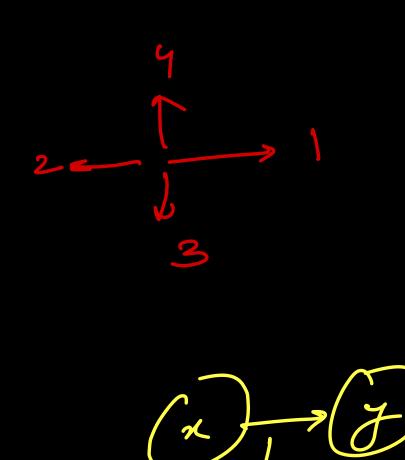
2 deme gooft

D D O Ø 90096 0-1 BFS

De Ceun a men grid, could ['L', R', 'U', 'D'] chars
mentioned on every cell- far char represent which cell we Con mous lo from the cun cell. You're Granting from Top-left. Now by spendey 1 unit cost we can replace the chan of the curr cell to other chans. Lunil reach the bottom Right Lue Cam In what min (02)



1	l	3	7	G
4	3	3	4	ſ
	2	3	3	2)
3	J			ð
/	3	2	J	3



I met cost

