

min Sum

SGR

24.3

$$\frac{3}{18}$$

54-9 0 2 0 2 0 1 3 0 3 0 3 0 1 5

JOIN THE DARKSIDE

MST Commune Spanning - Tree -> no cycles includes all the nodes of graph Subgoofele -> Sem of the edge with is min hay all vertices but min no. y edges 4 gorithms W Solve mST nadable b keep it lonnely Kruokals

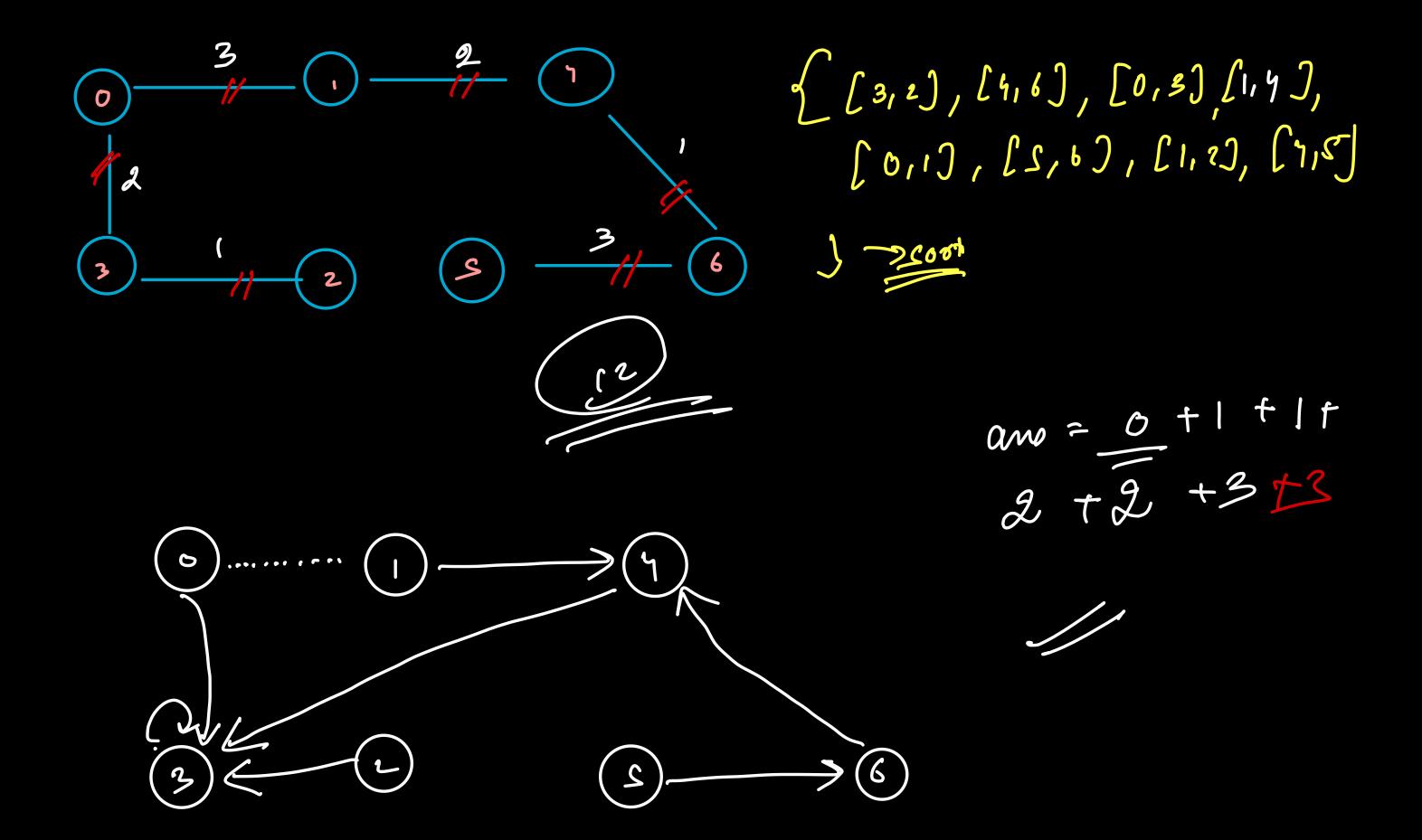
edges- Some edges will ke pukid Some won't.

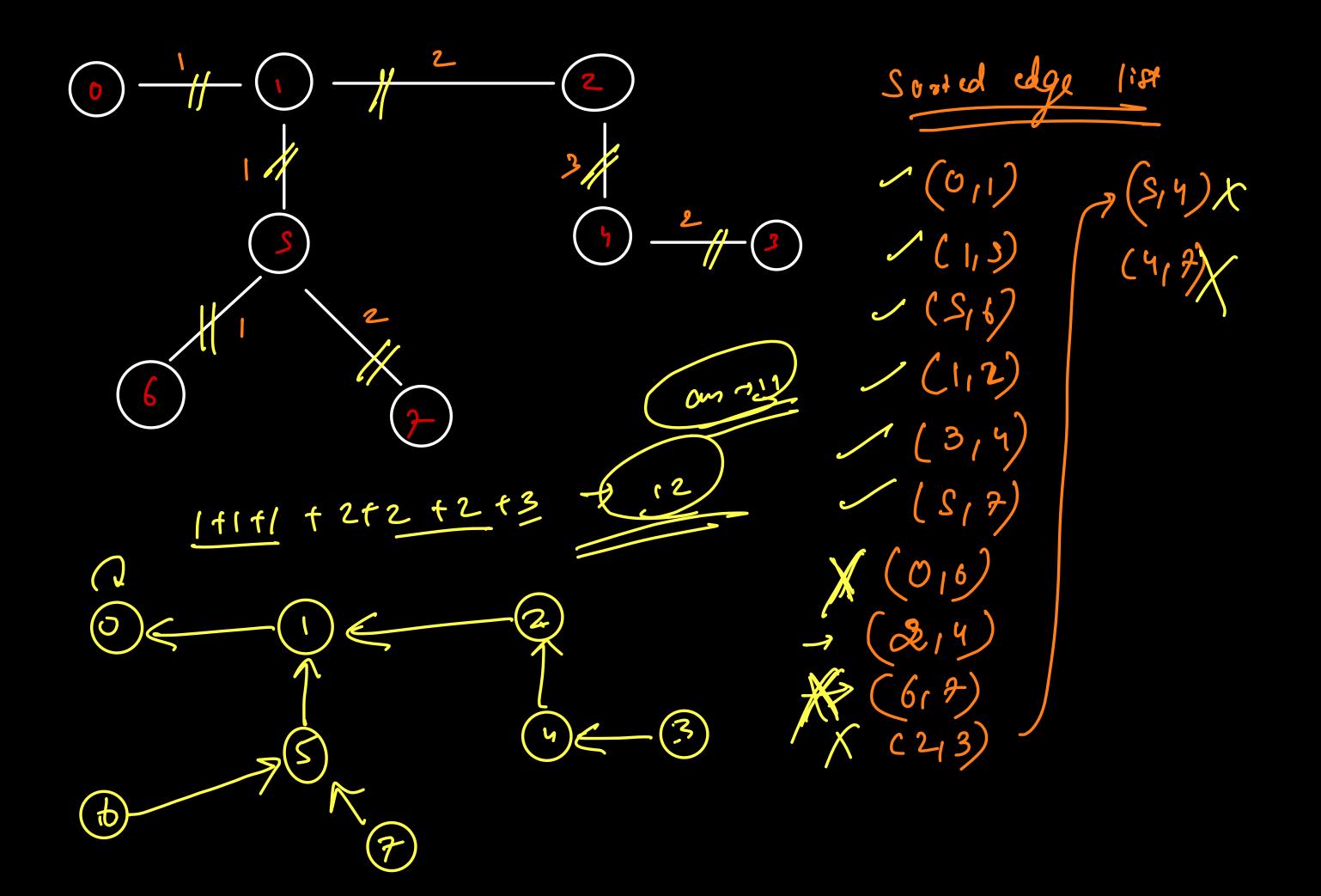
KRUSKAL'S

Gone ky one keep a fickey edges with min weight.

Is if choosing an edge forms a cycle avoid it, else

use it.





> choosy smallest edge wit which do not Greedy droice from cycl. $\int MS1 > 2$ $\begin{array}{c}
\mathcal{L} \\
\mathcal$ $\pi + \omega_1 \leq \pi + \omega_2$ I syde Zrwi Zn+wr JEIX gell

JOIN THE DARKSIDE

 (x_1,y_1) (x_2,y_2) $\sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$ $\sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$

Marhattan -> | x2-x1 + | y2-J1)

MIJI markettan dist

Birphrot Imst Lotel > E edy 1°sk

