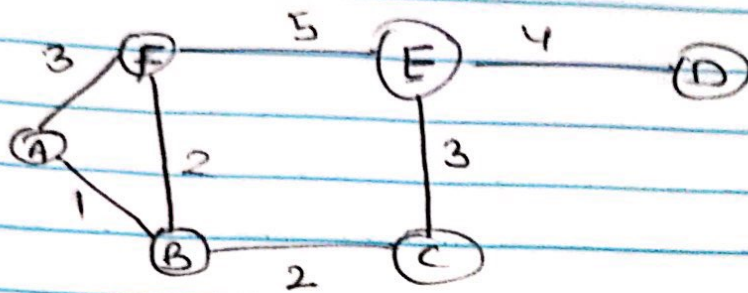


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let $G = (V, E)$

for every edge $e_{ij} = \langle v_i, v_j \rangle \in E$, we
give a variable x_{ij} to represent a
selection of e_{ij} .

if e_{ij} is selected:

$$x_{ij} = 1$$

else:

$$x_{ij} = 0$$

$$\max \sum_{e_{ij} \in E} x_{ij}$$

$$\forall v_i, v_j \in V \quad \sum_j x_{ij} \leq 1 \Rightarrow x_{ij} = 0, 1$$