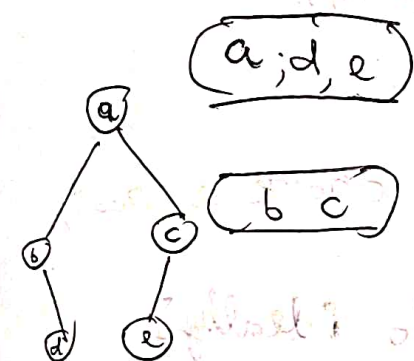


(Bipartite graph)

So by definition, it means that you can group the nodes into two groups. Condition is, if there is a branch $a-b$, then (a and b) should be in different groups.



$\xrightarrow{a-c}$ But $\boxed{a-c}$ also there is a branch, so we cannot place c in any group such that it following the condition.
 \xrightarrow{b}

Here is bipartite, Soln We can do bfs. Starting from any node, start at node x

$color[x] = 0$, then child nodes of this will have

$color[child] = 1 - color[x]$. If at anytime

$\{ color[child] \text{ is } = \text{ to } color[x] \text{ then not bipartite} \}$