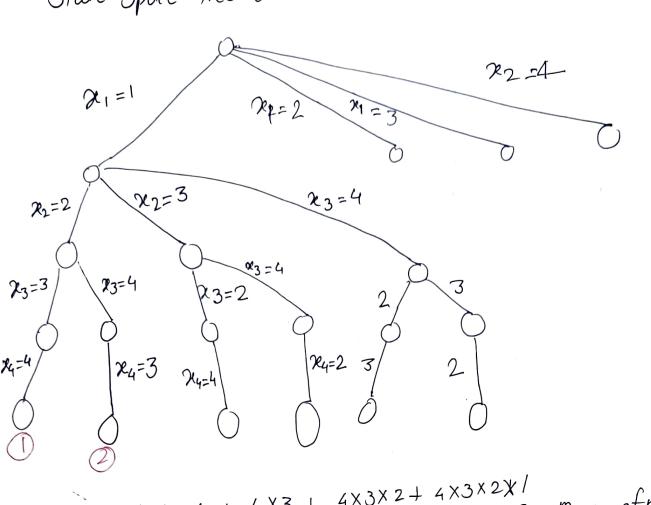


Now check if the queens are on the same diagon or not.

State space tree (without considering attack)

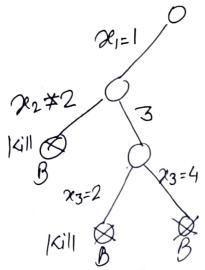


$$| + 4 + 4 \times 3 + 4 \times 3 \times 2 + 4 \times 3 \times 2 \times 1$$

$$= | + 4 + 4 \times 3 + 24 + 24 = 65 \text{ (max m no of node)}$$

$$= | + 4 + 4 \times 3 + 24 + 24 = 65 \text{ (max m no of node)}$$

Bounding fur n = queens should not be in same noue, Same colm & same digonal. Bounding fun = now, colm, digonal



No place for queen 3 so move second queen

