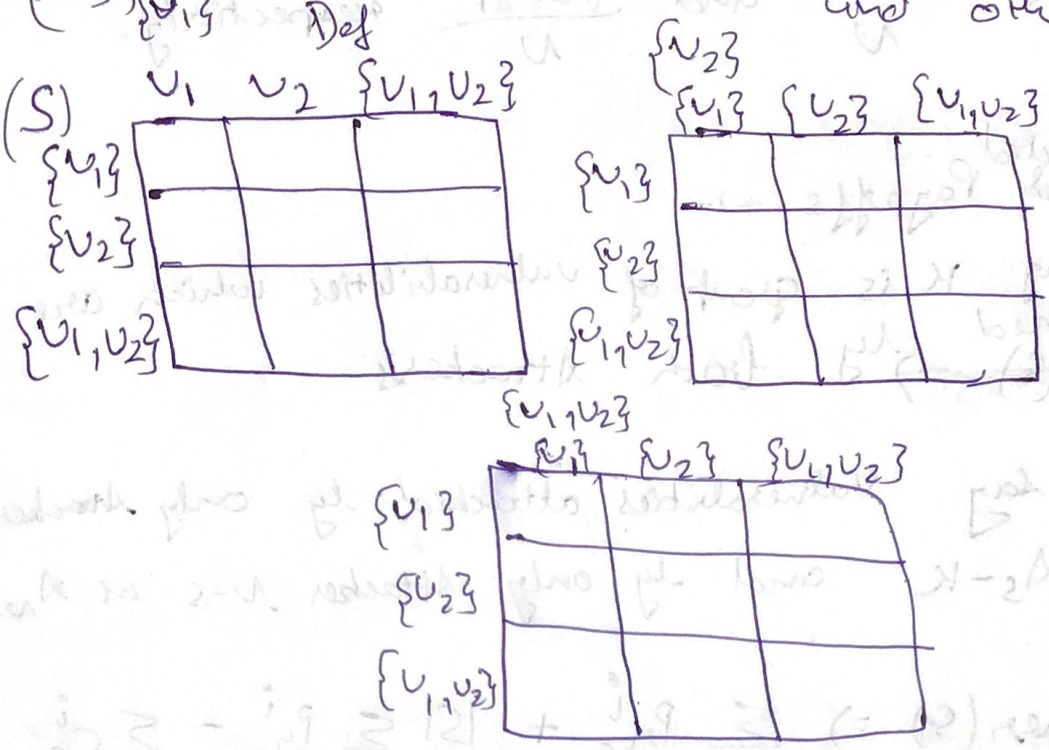
Consider 2 attacker groups and one Defender and 2 vulnerabilities. one attacker group is S and other V-S



These above all are cases in all of these will have 3 tupled value.

C_A^v = Cost of attacking a vulnerability v by attacker A.

C_{Def}^v = Cost of defending a vulnerability v by Defender Def

Pr_A^v = Profit of attacker A after attack on vulnerability

I_A^v = Impact of exploitation of vulnerability on Defender by Attacker

Pr_{Def}^v = Profit of Defender D after patching vulnerability v.

Now Consider Attacke S is using some strategy A_S and Attacker V-S using a strategy A_{V-S} and

Defender is using a strategy 2.