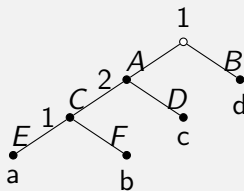


Reduced Strategic Form of Extensive Games

Definition

Let $\Gamma = \{N, H, P, (\succeq_i)\}$ be an extensive game with perfect information and let $\{N, (S_i), (\succeq'_i)\}$ be its strategic form. For any $i \in N$ define the strategies $s_i \in S_i$ and $s'_i \in S_i$ of player i to be **equivalent** if for each $s_{-i} \in S_{-i}$ we have $(s_i, s_{-i}) \sim'_j (s'_i, s_{-i})$ for all $j \in N$. The **reduced strategic form of Γ** is the strategic game $\{N, (S'_i), (\succeq''_i)\}$ in which for each $i \in N$ each set S'_i contains one member of each set of equivalent strategies in S_i and \succeq''_i is the preference ordering over $\times_{j \in N} S'_j$ induced by \succeq'_i .



	AC	AD
(A, ACE)	a	c
(A, ACF)	b	c
(B, ACE)	d	d

If $a \neq b$

	AC	AD
(A, ACE)	a	c
(B, ACE)	d	d

If $a = b$