dominant strategy

Canonical name	DominantStrategy
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Entry type	Definition
Classification	msc 91A10
Defines	weakly dominant strategy
Defines	dominates
Defines	weakly dominates
Defines	strongly dominates
Defines	dominant
Defines	strongly dominant

For any player i, a strategy $s^* \in S_i$ *weakly dominates* another strategy $s' \in S_i$ if:

$$\forall s_{-i} \in S_{-i} \left[u_i(s^*, s_{-i}) \geq u_i(s', s_{-i}) \right]$$

(Remember that S_{-i} represents the product of all strategy sets other than i's)

s^* *strongly dominates* s' if:

$$\forall s_{-i} \in S_{-i} \left[u_i(s^*, s_{-i}) > u_i(s', s_{-i}) \right]$$