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Addendum to transform Bayesian game to complete information NFG.
                  N = \bigcup_{i \in N} \Theta_i = \{\theta_i^1, \theta_i^2, \dots, \theta_i^{[O_i]}, \dots \}
           new player set
                Consider two players, type sets \Theta_1 = \{\theta_1', \theta_1^2\}, \Theta_2 = \{\theta_2', \theta_2^2\}
                                                                                                                                                 Original payoffs of Bayerian
            utility of player of
                                    \overline{u}_{\theta_{1}^{\prime}}\left(a_{\theta_{1}^{\prime}},a_{\theta_{2}^{\prime}},a_{\theta_{2}^{\prime}},a_{\theta_{2}^{\prime}}\right) = P\left(\theta_{2}^{\prime}\left|\theta_{1}^{\prime}\right\rangle u_{1}\left(a_{\theta_{1}^{\prime}},a_{\theta_{2}^{\prime}},\theta_{1}^{\prime},\theta_{2}^{\prime}\right)
                                                                                                                + P(\theta_{2}^{2}|\theta_{1}^{1}) U_{1}(a_{\theta_{1}^{1}}, a_{\theta_{2}^{2}}, \theta_{1}^{1}, \theta_{2}^{2})
              [defining a_{\theta_1'} = a_1(\theta_1'), a_{\theta_1'}^2 = a_1(\theta_1^2) etc.]
          consider a mixed strategy (\sigma_{\theta_1'}, \sigma_{\theta_2}, \sigma_{\theta_1'}, \sigma_{\theta_2}) in this new game
           \overline{\mathsf{u}}_{\theta_{1}^{1}}\left(\mathsf{T}_{\theta_{1}^{1}},\mathsf{T}_{\theta_{1}^{2}},\mathsf{T}_{\theta_{2}^{1}},\mathsf{T}_{\theta_{2}^{2}}\right)=
    \sum \sum \sum \sigma_{\theta_{1}^{\prime}}(a_{\theta_{1}^{\prime}}) \sigma_{\theta_{1}^{2}}(a_{\theta_{2}^{2}}) \sigma_{\theta_{1}^{\prime}}(a_{\theta_{2}^{\prime}}) \sigma_{\theta_{2}^{2}}(a_{\theta_{2}^{2}}) \times
a_{\theta_{2}} \in A_{2} A_{\theta_{2}} \in A_{2} A_{\theta_{1}} \in A_{1} A_{\theta_{1}} \in A_{1}
                                                                                  \overline{\mathcal{U}}_{\theta_{1}^{\prime}}\left(a_{\theta_{1}^{\prime}},a_{\theta_{2}^{\prime}},a_{\theta_{2}^{\prime}},a_{\theta_{2}^{\prime}},a_{\theta_{2}^{\prime}}\right)
        now plng this in from \mathbb{O}, it relevant a_{\theta_{1}}; terms = \mathbb{E}\left\{\begin{array}{c} \nabla_{\theta_{1}^{\prime}}(a_{\theta_{1}^{\prime}}) & \forall u_{1} \\ \nabla_{\theta_{2}^{\prime}}(a_{\theta_{1}^{\prime}}) & \nabla_{\theta_{2}^{\prime}}(a_{\theta_{2}^{\prime}}) \end{array}\right. = \mathbb{E}\left\{\begin{array}{c} \nabla_{\theta_{2}^{\prime}}(a_{\theta_{2}^{\prime}}) & \forall u_{1} \\ \nabla_{\theta_{2}^{\prime}}(a_{\theta_{2}^{\prime}}) & \forall u_{1} \\ \nabla_{\theta_{2}^{\prime}}(a_{\theta_{2}^{\prime}}) & \nabla_{\theta_{2}^{\prime}}(a_{\theta_{2}^{\prime}}) \end{array}\right.
                                       + \sum P(\theta_{2}^{2}|\theta_{1}^{1}) \sigma_{\theta_{2}^{2}}(a_{\theta_{2}^{2}}) u_{1}(a_{\theta_{1}^{1}}, a_{\theta_{2}^{2}}, \theta_{1}^{1}, \theta_{2}^{2})
                             a_{\theta_1'}(A_1 a_{\theta_2^2} \in A_2 \quad \sigma_{\theta_1'}(a_{\theta_1'}) \xrightarrow{\text{this is}} \sigma_2(\theta_2^2, a_{\theta_2^2})
                                            \sum P(\theta_2|\theta_1') U_1(\sigma_1, \sigma_2|\theta_1')
                                                                                     (\sigma_{\theta_1^1}, \sigma_{\theta_1^2}, \sigma_{\theta_2^1}, \sigma_{\theta_2^2})
                Hence a mixed strategy in the complete information game
                  is a mixed streetegy (o, oz) in the Bayesian game,
                  It follows that the MSNE in that game will be a BE in
                  this game.
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