## Activity: D-Day Econ 305

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Find all of the Nash equilibria of the following game:

Defend Normandy (DN) Defend Calais (DC) Invade Normandy (IN) -2,21,-1

-1,1

Invade Calais (IC)

What is the probability of invading an undefended site (outcomes of (IN, DC) or (IC, DN))? Let  $p = \sigma_1(IN)$  and  $q = \sigma_2(DN)$ .

3,-3

$$O_{z} = G(ON) + (-9)(OC)$$

$$V_{2}(\sigma_{1}, ON) = 2p + (3)(1-p)$$

$$U_2(\mathcal{O}_1, \mathcal{O}_C) = -\rho + ((-\rho)$$